

Y.Wakabayashi
Observation of a Low-Dimensional Structure – Utilization of Anomalous Scattering in Analysis of X-Ray Diffuse Scattering
J. Jpn. Soc. Synchrotron Rad. Res., **20** (2007) 26. (*in Japanese*).

H.Sawa, T.Kakiuchi, Y.Wakabayashi, Y.Murata, M.Murata, K.Komatsu, K.Yakigaya, H.Takagi and N.Dragoe
Direct Observation of a Gas Molecule(H₂,Ar) Swallowed by C₆₀
AIP Conf. Proc., **879** (2007) 1419.

T.Kakiuchi, Y.Wakabayashi, H.Sawa, T.Itou and K.Kanoda
Wigner Crystallization in (DI-DCNQI)₂Ag Detected by Synchrotron Radiation X-Ray Diffraction
Phys. Rev. Lett., **98** (2007) 066402.

K.Yakigaya, A.Takeda, Y.Yokoyama, S.Ito, T.Miyazaki, T.Suetsuna, H.Shimotani, T.Kakiuchi, H.Sawa, H.Takagi, K.Kitazawa and N.Dragoe
Superconductivity of Doped Ar@C₆₀
New J. Chem., **31** (2007) 973.

H.Sakai, K.Ito, R.Kumai and Y.Tokura
Fe-Doping-Induced Evolution of Charge-Orbital Ordering in a Bicritical-State Manganite
Phys. Rev. B, **76** (2007) 155112.

T.Kakiuchi, Y.Wakabayashi, H.Sawa, T.Takahashi and T.Nakamura
Charge Ordering in α -(BEDT-TTF)₂I₃ by Synchrotron X-Ray Diffraction
J. Phys. Soc. Jpn., **76** (2007) 113702.

R.Kumai, S.Horiuchi, H.Sagayama, T.Arima, M.Watanabe, Y.Noda and Y.Tokura
Structural Assignment of Polarization in Hydrogen-Bonded Supramolecular Ferroelectrics
J. Am. Chem. Soc., **129** (2007) 12920.

S.Horiuchi, R.Kumai and Y.Tokura
A Supramolecular Ferroelectric Realized by Collective Proton Transfer
Angew. Chem. Int. Edit., **46** (2007) 3497.

S.Horiuchi, R.Kumai and Y.Tokura
Hydrogen-Bonded Donor-Acceptor Compounds for Organic Ferroelectric Materials
Chem. Commun., **2007** (2007) 2321.

T.Matsumura, D.Okuyama, S.Nioka, H.Ishida, T.Satoh, Y.Murakami, H.Toiyosaki, Y.Yamada, T.Fukumura and M.Kawasaki
X-Ray Anomalous Scattering of Diluted Magnetic Oxide Semiconductors: Possible Evidence of Lattice Deformation for High Temperature Ferromagnetism
Phys. Rev. B, **76** (2007) 115320.

S.Horiuchi, R.Kumai and Y.Tokura
Organic Ferroelectrics Based on Hydrogen-bonded Supramolecules
Solid State Physics, **42** (2007) 283. (*in Japanese*).

Y.Wakabayashi
Observation of a Low-Dimensional Structure – Utilization of Anomalous Scattering in Analysis of X-Ray Diffuse Scattering
J. Jpn. Soc. Synchrotron Rad. Res., **20** (2007) 26. (*in Japanese*).

Y.Bando, M.Ashizawa, T.Matsuzawa, N.Takashita, T.Kawamoto, T.Mori, T.Kakiuchi, H.Sawa, K.Takimiya, T.Otsubo, Y.Misaki and J.Yamada
New Strategies for Designing TTP-Based Donor Molecules
"Multifunctional Conducting Molecular Materials" ed. by G. Saito et al., (2007) 139.

H.Endo, T.Kawamoto, T.Mori, T.Kakiuchi, H.Sawa, M.Kodani, K.Takimiya and T.Otsubo,
Crystal Structures and Physical Properties of the New Organic Conductors (EDT-TSF)₂GaCl₄ and (EDT-TSF)₂FeCl₄
"Multifunctional Conducting Molecular Materials", ed. by G. Saito et al., (2007) 165.

T.Kakiuchi, Y.Wakabayashi, H.Sawa, T.Itou and K.Kanoda
Wigner Crystallization in (DI-DCNQI)₂Ag Detected by Synchrotron Radiation X-Ray Diffraction
Phys. Rev. Lett., **98** (2007) 066402.

T.Tajiri, S.Matsumoto, H.Deguchi, M.Mito, S.Takagi, C.Moriyoshi, K.Itoh and K.Koyama
Effect of Pressure on Two-Dimensional Heisenberg Antiferromagnet Cu(HCOO)₂·4H₂O
J. Magn. Magn. Mater., **310** (2007) e566.

M.Ogawa, M.Mito, T.Tajiri, H.Deguchi, S.Takagi, K.Nakata, M.Yamashita and H.Miyasaka
Pressure Effects on Mn₄ Single-Molecule Magnet with Two-Dimensional Correlation
J. Magn. Magn. Mater., **310** (2007) e489.

N.Tatami, Y.Ando, S.Nioka, H.Kira, M.Onodera, H.Nakao, K.Iwasa, Y.Murakami, T.Kakiuchi, Y.Wakabayashi, H.Sawa and S.Itoh
Orbital Ordering and the Dilute Effect in Copper Fluoride
J. Magn. Magn. Mater., **310** (2007) 787.

K.Yakigaya, A.Takeda, Y.Yokoyama, S.Ito, T.Miyazaki, T.Suetsuna, H.Shimotani, T.Kakiuchi, H.Sawa, H.Takagi, K.Kitazawa and N.Dragoe
Superconductivity of Doped Ar@C₆₀
New J. Chem., **31** (2007) 973.

H.Ikemoto, S.Yoshida and A.Goyou
X-Ray Diffraction Study of Bismuth Nanoparticles
e-J. Surf. Sci. Nanotech., **5** (2007) 110.

S.Yamashita, T.Shiga, M.Kurashina, M.Nihei, H.Nojiri, H.Sawa, T.Kakiuchi and H.Oshio
Manganese(III,IV) and Manganese(III) Oxide Clusters Trapped by Copper(II) Complexes
Inorg. Chem., **46** (2007) 3810.

Y.Maniwa, K.Matsuda, H.Kyakuno, S.Ogasawara, T.Hibi, H.Kadowaki, S.Suzuki, Y.Achiba and H.Kataura
Water-Filled Single-Wall Carbon Nanotubes as Molecular Nanovalves
Nature Materials, **6** (2007) 135.

K.Yanagi, K.Iakoubovskii, H.Matsui, H.Matsuzaki, H.Okamoto, Y.Miyata, Y.Maniwa, S.Kazaoui, N.Minami and H.Kataura
Photosensitive Function of Encapsulated Dye in Carbon Nanotubes
J. Am. Chem. Soc., **129** (2007) 4992.

T.Kakiuchi, Y.Wakabayashi, H.Sawa, T.Takahashi and T.Nakamura
Charge Ordering in α -(BEDT-TTF)₂I₃ by Synchrotron X-Ray Diffraction
J. Phys. Soc. Jpn., **76** (2007) 113702.

T.Kawamoto, T.Mori, T.Kakiuchi, H.Sawa, T.Shirahata, M.Kibune, H.Yoshino and T.Imakubo
Domain Formation in the Structural Phase Transition of the Organic Superconductor κ _L-(DMEDO-TSeF)₂[Au(CN)₄](THF)
Phys. Rev. B, **76** (2007) 134517.

S.Shimomura, K.Torashima, N.Wakabayashi, K.Nishimoto, T.Tonegawa, N.Hamaya, H.Sawa, Y.Tomioka and Y.Tokura
X-Ray Diffraction Study on Charge and Orbital Order in Pr_{0.65}Ca_{0.35}MnO₃ under High Pressure
J. Phys. Soc. Jpn., **76** (2007) 124603.

K.Ozawa, T.Sato, Y.Oba and K.Edamoto
Electronic Structure of Cu on ZnO(10 $\bar{1}$ 0): Angle-Resolved Photoemission Spectroscopy Study
J. Phys. Chem. C, **111** (2007) 4256.

T.Kaneyasu, Y.Hikosaka, E.Shigemasa, F.Penent, P.Lablanquie, T.Aoto and K.Ito
State-Selective Cross Sections of Multiple Photoionization in Ne
Phys. Rev. A, **76** (2007) 012717.

K.Ozawa, Y.Oba and K.Edamoto
Oxidation of Copper Clusters on ZnO(10 $\bar{1}$ 0): Effect of Temperature and Preadsorbed Water
Surf. Sci., **601** (2007) 3125.

A.Chikamatsu, H.Wadati, H.Kumigashira, M.Oshima, A.Fujimori, N.Hamada, T.Ohnishi, M.Lippmaa, K.Ono, M.Kawasaki and H.Koinuma
In-situ Angle-Resolved Photoemission Study on Half-Metallic La_{0.6}Sr_{0.4}MnO₃ Thin Films
J. Magn. Magn. Mater., **310** (2007) 1030.

A.Maniwa, K.Okano, I.Ohkubo, H.Kumigashira, M.Oshima, M.Lippmaa, M.Kawasaki and H.Koinuma
Transport and Magnetic Properties of Pr_{1-x}Ca_xMnO₃ Epitaxial Films Grown on LaAlO₃ Substrates
J. Magn. Magn. Mater., **310** (2007) 2237.

Y.Hikosaka, P.Lablanquie, F.Penent, T.Kaneyasu, E.Shigemasa, J.H.D.Eland, T.Aoto and K.Ito

Single, Double, and Triple Auger Decay of the Xe 4p Core-Hole States
Phys. Rev. A, **76** (2007) 032708.

K.Ozawa, Y.Oba and K.Edamoto
Angle-Resolved Photoemission Study of Cu on ZnO(1010); Room Temperature Deposition and Annealing Effect
Surf. Sci., **601** (2007) 4053.

Y.Nakayama, S.Yamazaki, H.Okino, T.Hirahara, I.Matsuda, S.Hasegawa and M.Ichikawa
Electrical Conduction of Ge Nanodot Arrays Formed on an Oxidized Si Surface
Appl. Phys. Lett., **91** (2007) 123104.

T.Kaneyasu, Y.Hikosaka, E.Shigemasa, F.Penent, P.Lablanquie, T.Aoto and K.Ito
Autoionization of the Ne⁺ Rydberg States Formed via Valence Photoemission
J. Phys. B, **40** (2007) 4047.

K.Nakamura, T.Mano, M.Oshima, H.W.Yeom and K.Ono
High-Resolution Core-Level Photoemission Study on GaAs(111)B Surfaces
J. Appl. Phys., **101** (2007) 043516.

2A

T.Tsutsumi, T.Miyamoto, H.Niimi, Y.Kitajima, Y.Sakai, M.Kato, T.Naito and K.Asakura,
Energy-Filtered X-Ray Photoemission Electron Microscopy and its Applications to Surface and Organic Materials
Solid State Electronics, **51** (2007) 1360.

2C

H.Wadati, A.Maniwa, I.Ohkubo, H.Kumigashira, A.Fujimori, M.Oshima, M.Lippmaa, M.Kawasaki and H.Koinuma
In situ Photoemission Study of Pr_{1-x}Ca_xMnO₃ Epitaxial Thin Films
J. Magn. Magn. Mater., **310** (2007) 963.

S.Hosokawa, H.Sato, K.Mimura, N.Happo, Y.Tezuka, T.Ichitsubo, E.Matsubara and N.Nishiyama
Soft X-Ray Emission Study of Pd-Ni-Cu-P Bulk Metallic Glass
J. Elec. Spec. Relat. Phenom., **156-158** (2007) 426.

S.Hosokawa, H.Sato, N.Happo, K.Mimura, Y.Tezuka, T.Ichitsubo, E.Matsubara and N.Nishiyama
Electronic Structure of Pd_{42.5}Ni_{7.5}Cu₃₀P₂₀, an Excellent Bulk Metallic Glass Former: Comparison to the Pd₄₀Ni₄₀P₂₀ Reference Glass
Acta Mater., **55** (2007) 3413.

J.Adachi, K.Ito, H.Yoshii, M.Yamazaki, A.Yagishita, M.Stener and P.Decleva
Site-Specific Photoemission Dynamics of N₂O Molecules Probed by Fixed-Molecule Core-Level Photoelectron Angular Distributions
J. Phys. B, **40** (2007) 29.

T.Teramoto, J.Adachi, K.Yamanouchi and A.Yagishita

Measurements of Molecular Alignment in an Intense Laser Field by Pulsed Undulator Radiation
AIP Conf. Proc., **879** (2007) 1805.

Y.Taguchi, K.Kitamoto, K.Mimura, S.Kawamata, T.Ishida, O.Aita and K.Ichikawa,
Mn 3d State of Pr_{0.5}Ca_{0.5}MnO_{3-δ} Studied by Mn 2p-3d Resonant Photoemission Spectroscopy
J. Elec. Spec. Relat. Phenom., **156-158** (2007) 430.

Y.Hikosaka, P.Lablanquie, F.Penent, T.Kaneyasu, E.Shigemasa, J.H.D.Eland, T.Aoto and K.Ito
Double Photoionization into Double Core-Hole States in Xe
Phys. Rev. Lett., **98** (2007) 183002.

Y.Hikosaka, T.Kaneyasu, E.Shigemasa, P.Lablanquie, F.Penent and K.Ito
Multielectron Coincidence Spectroscopy for Core-Valence Doubly Ionized States of CO
J. Chem. Phys., **127** (2007) 044305.

A.Chikamatsu, H.Wadati, H.Kumigashira, M.Oshima, A.Fujimori, N.Hamada, T.Ohnishi, M.Lippmaa, K.Ono, M.Kawasaki and H.Koinuma
In-situ Angle-Resolved Photoemission Study on Half-Metallic La_{0.6}Sr_{0.4}MnO₃ Thin Films
J. Magn. Magn. Mater., **310** (2007) 1030.

A.Maniwa, K.Okano, I.Ohkubo, H.Kumigashira, M.Oshima, M.Lippmaa, M.Kawasaki and H.Koinuma
Transport and Magnetic Properties of Pr_{1-x}Ca_xMnO₃ Epitaxial Films Grown on LaAlO₃ Substrates
J. Magn. Magn. Mater., **310** (2007) 2237.

H.Kumigashira, R.Hashimoto, A.Chikamatsu, M.Oshima, H.Wadati, A.Fujimori, M.Lippmaa, M.Kawasaki and H.Koinuma
In-situ Photoemission Characterization of the Tunneling Barrier in La_{0.6}Sr_{0.4}MnO₃/SrTiO₃/La_{0.6}Sr_{0.4}MnO₃ Tunneling Junctions
J. Magn. Magn. Mater., **310** (2007) 1997.

M.Minohara, I.Ohkubo, H.Kumigashira and M.Oshima
Band Diagrams of Spin Tunneling Junctions La_{0.6}Sr_{0.4}MnO₃/Nb:SrTiO₃ and SrRuO₃/Nb:SrTiO₃ Determined by *in-situ* Photoemission Spectroscopy
Appl. Phys. Lett., **90** (2007) 132123.

H.Sato, K.Tsuji, K.Yoshikawa, Y.Tezuka, S.Nishimoto, M.Higashi, F.Iga, M.Tsubota, M.Takemura, T.Takabatake and M.Taniguchi
Ti 2p Soft X-Ray Emission Spectroscopy of Ti₂O₃
J. Elec. Spec. Relat. Phenom., **156-158** (2007) 365.

M.Inukai, K.Soda, S.Ota, H.Miyazaki, T.Suzuki, M.Kato, S.Yagi, Y.Tezuka and Y.Yokoyama
Energy Distribution of Co and Ni 3d states of Decagonal Quasicrystal Al₇₂Co₁₆Ni₁₂
Phil. Mag., **87** (2007) 3003.

K.Maekawa, M.Takizawa, H.Wadati, T.Yoshida, A.Fujimori, H.Kumigashira, M.Oshima, Y.Muraoka, Y.Nagao and Z.Hiroi
Photoemission Study of TiO₂/VO₂ Interfaces
Phys. Rev. B, **76** (2007) 115121.

J.Adachi, K.Hosaka, T.Teramoto, M.Yamazaki, N.Watanabe, M.Takahashi and A.Yagishita
Photoelectron-Photoion-Photoion Momentum Spectroscopy as a Direct Probe of the Core-Hole Localization in C 1s Photoionization of C₂H₂
J. Phys. B, **40** (2007) F285.

T.Teramoto, J.Adachi, K.Hosaka, M.Yamazaki, K.Yamanouchi, N.A.Cherepkov, M.Stener, P.Decleva and A.Yagishita
New Approach for a Complete Experiment: C1s Photoionization in CO₂ Molecules
J. Phys. B, **40** (2007) F241.

T.Teramoto, J.Adachi, M.Yamazaki, K.Yamanouchi, M.Stener, P.Decleva and A.Yagishita
Extensive Study on the C 1s Photoionization of CS₂ Molecules by Multi-Coincidence Velocity-Map Imaging Spectrometry
J. Phys. B, **40** (2007) 4033.

H.Wadati, K.Tanaka, A.Fujimori, T.Mizokawa, H.Kumigashira, M.Oshima, S.Ishiwata, M.Azuma and M.Takano
Temperature-Dependent Photoemission and X-Ray Absorption Studies of the Metal-Insulator Transition in Bi_{1-x}La_xNiO₃
Phys. Rev. B, **76** (2007) 205123.

old 3A

K.Fukuda, Y.Ebina, T.Shibata, T.Aizawa, I.Nakai and T.Sasaki
Unusual Crystallization Behaviors of Anatase Nanocrystallites from a Molecularly Thin Titania Nanosheet and its Stacked Forms: Increase in Nucleation Temperature and Oriented Growth
J. Am. Chem. Soc., **129** (2007) 202.

S.Hosokawa, N.Happo and K.Hayashi
Three-Dimensional Structural Image of Zn_{0.4}Mn_{0.6}Te Diluted Magnetic Semiconductor Obtained by X-Ray Fluorescence Holography
J. Magn. Magn. Mater., **310** (2007) 2707.

S.Hosokawa, T.Ozaki, K.Hayashi, N.Happo, M.Fujiwara, K.Horii, P.Fons, A.V.Kolobov and J.Tominaga
Existence of Tetrahedral Site Symmetry about Ge Atoms in a Single-Crystal Film of Ge₂Sb₂Te₅ Found by X-Ray Fluorescence Holography
Appl. Phys. Lett., **90** (2007) 131913.

T.Noguchi, T.Nakamura, K.Okudaira, H.Yano, S.Sugita and M.J.Burchell
Thermal Alteration of Hydrated Minerals during Hypervelocity Capture to Silica Aerogel in the Flyby Speed of Stardust Meteorites and Planetary Sciences, **42** (2007) 357.

T.Akaki, T.Nakamura, T.Noguchi and A.Tsuchiyama
Multiple Formation of Chondrules in the Early Solar System: Chronology of a Compound Al-Rich Chondrule
Astrophysical J. Lett., **656** (2007) L29.

M.Tanaka, T.Nakamura and T.Noguchi
Application of the Quantitative-Phase and Crystal Structure Simultaneous Analysis to the X-Ray Diffraction Data Obtained by Synchrotron Gandolfi Camera System
AIP Conf. Proc., **879** (2007) 1779.

3B

K.Kato, T.Osawa, S.Obara, Y.Tohyama, T.Nagata, Y.Azuma and F.Koike
Observation of High-Lying Weak Autoionizing Resonances of Ne, Na and Mg Atoms by Charge-Separated Photon-Yield Method
J. Phys.: Conf. Ser., **58** (2007) 363.

P.Lablanquie, T.Aoto, Y.Hikosaka, Y.Morioka, F.Penent and K.Ito
Appearance of Interatomic Coulombic Decay in Ar, Kr, and Xe Homonuclear Dimers
J. Chem. Phys., **127** (2007) 154323.

K.Edamoto, T.Nagayama, K.Ozawa and S.Otani
Angle-Resolved and Resonant Photoemission Study of the ZrO-like Film on ZrC(100)
Surf. Sci., **601** (2007) 5077.

3C

K.Suzuki, M.Ito, N.Tsujii, H.Akiyama, K.Kitani, H.Adachi and H.Kawata
Upgrade of X-Ray Magnetic Diffraction Experimental System and its Application to Ferromagnetic Material
AIP Conf. Proc., **879** (2007) 1691.

4A

Y.Nozone, Y.Shinohara, Y.Ogawa, T.Sakurai, H.Hori, T.Kasahara, N.Yamaguchi, N.Yagi and Y.Amemiya
Deformation Behavior of Isotactic Polypropylene Spherulite during Hot Drawing Investigated by Simultaneous Microbeam SAXS-WAXS and POM Measurement
Macromolecules, **40** (2007) 2036.

H.Eba and K.Sakurai
Observation of Transferring Elements by Quick X-Ray Fluorescence Imaging
Adv. X-Ray Chem. Anal., Jpn., **38** (2007) 331. (*in Japanese*).

J.Chikawa, K.Yamada, T.Akimoto, H.Sakurai, H.Yasui, H.Yamamoto, S.Okabe and M.Ebara
The Universal Concentrations and Cancer Signs of Trace Elements in Hair Observed by X-Ray Fluorescence Analysis
J. X-Ray Sci. Tech., **15** (2007) 109.

T.Mikouchi, K.Ota, J.Makishima, A.Monkawa and K.Sugiyama
Mineralogy and Crystallography of LAP 04840: Implications for Metamorphism at Depth in the R Chondrite Parent Body
Lunar and Planetary Sci., **XXXVIII** (2007) 1928.

K.Nomura, H.Eba, K.Sakurai, A.Rykov and T.Hasegawa
XAFS and CEMS Study of Dilute Magneto-Optical Semiconductor, Fe Doped TiO₂ Films Thin Solid Films, **515** (2007) 8649.

A.Iida and Y.Takanishi
Characterization of Focal Conics in Chiral Smectic C Liquid Crystals by X-Ray Microdiffraction
Liquid Crystals, **34** (2007) 1285.

X.Li, W.Yue, A.Iida, Y.Li and G.Zhang
A Study of the Origin of Individual PM_{2.5} Particles in Shanghai Air with Synchrotron X-Ray Fluorescence Microprobe
Nucl. Instrum. Meth. Phys. Res. B, **260** (2007) 336.

4B1

T.Mikouchi, K.Hagiya, O.Tachikawa, K.Ohsumi and M.Zolensky
Phase Identification of 81P/Wild 2 Cometary Particles by Electron Microscopy and Synchrotron Radiation X-Ray Diffraction
Proc. 40th ISAS Lunar and Planetary Symp., (2007) 135.

T.Mikouchi
New Image of the Solar Nebula as Revealed by the Stardust Mission
Yuseijin (J. Jpn. Soc. Planetary Science), **16** (2007) 285. (*in Japanese*).

T.Nakamura, T.Mikouchi and A.Tsuchiyama
Non-Destructive Analysis of Stardust Particles using Synchrotron Radiation
Yuseijin (J. Jpn. Soc. Planetary Science), **16** (2007) 285. (*in Japanese*).

T.Mikouchi, O.Tachikawa, K.Hagiya, K.Ohsumi, Y.Suzuki, K.Uesugi, A.Takeuchi and M.E.Zolensky
Mineralogy and Crystallography of Comet 81P/Wild 2 Particles
Lunar and Planetary Science, **XXXVIII** (2007) 1946.

K.Hagiya, K.Ohsumi, T.Mikouchi and M.E.Zolensky
Synchrotron X-Ray Diffraction Study of the Comet Wild 2 Particle (C2054,0,35,4) Returned by the NASA Stardust Mission
Lunar and Planetary Science, **XXXVIII** (2007) 2381.

M.Zolensky, K.Ohsumi, G.A.Robinson, G.Morgan, K.Hagiya and T.Mikouchi
Fe-Ni Sulfides in Chondrites Revealed Meteoritics and Planetary Science, **42 (Suppl.)** (2007) A171.

4B2

M.Yashima, Y.Lee and K.Domen
Crystal Structure and Electron Density of Tantalum Oxynitride TaON, a Visible Light Responsive Photocatalyst
Chem. Mater., **19** (2007) 588.

M.Yashima, Y.Ando and Y.Tabira
Crystal Structure and Electron Density of α -Silicon Nitride: Experimental and Theoretical Evidence for the Covalent Bonding and Charge Transfer
J. Phys. Chem. B, **111** (2007) 3609.

M.Terada, K.Kawamura, I.Kagomiya, K.Kakimoto and H.Ohsato
Effect of Ni Substitution on the Microwave Dielectric Properties of Cordierite
J. Euro. Ceramic Soc., **27** (2007) 3045.

M.Yashima and Y.Kawaike
Crystal Structure and Site Preference of Ba-Doped-Tricalcium Phosphate (Ca_{1-x}Ba_x)₃(PO₄)₂ through High-Resolution Synchrotron Powder Diffraction ($x = 0.05$ to 0.15)
Chem. Mater., **19** (2007) 3973.

M.Yashima
Crystal Structure and Electron Density of Inorganic Materials Studied by High-Resolution Synchrotron Powder Diffractometry
J. Crystallogr. Soc. Jpn., **49** (2007) 354. (*in Japanese*).

4C

T.Arima, Y.Yamasaki, T.Goto, S.Iguchi, K.Ohgushi, S.Miyasaka and Y.Tokura
Spin-Lattice Coupling in Ferroelectric Spiral Magnets: Comparison between the Cases of (Tb,Dy)MnO₃ and CoCr₂O₄
J. Phys. Soc. Jpn., **76** (2007) 023602.

Y.Yamasaki, T.Arima and Y.Tokura
Magnetic Reversal of the Ferroelectric Polarization in a Spinel-Type CoCr₂O₄
Solid State Physics, **42** (2007) 29. (*in Japanese*).

Y.Wakabayashi
Observation of a Low-Dimensional Structure – Utilization of Anomalous Scattering in Analysis of X-Ray Diffuse Scattering
J. Jpn. Soc. Synchrotron Rad. Res., **20** (2007) 26. (*in Japanese*).

Y.Wakabayashi, D.Bizen, H.Nakao, Y.Murakami, M.Nakamura, Y.Ogimoto, K.Miyano and H.Sawa
Orbital Ordered Structure of a Manganite Thin Film Observed by K-Edge Resonant X-Ray Scattering
AIP Conf. Proc., **879** (2007) 1711.

T.Kakiuchi, Y.Wakabayashi, H.Sawa, T.Itou and K.Kanoda
Wigner Crystallization in (DI-DCNQI)₂Ag Detected by Synchrotron Radiation X-Ray Diffraction
Phys. Rev. Lett., **98** (2007) 066402.

T.Suzuki, M.Katsumura, K.Taniguchi, T.Arima and T.Katsufuji
Orbital Ordering and Magnetic Field Effect in MnV₂O₄
Phys. Rev. Lett., **98** (2007) 127203.

- K.Ishii, S.Tsutsui, L.Hao, T.Hasegawa, K.Iwasa, M.Tsubota, T.Inami, Y.Murakami, S.R.Saha, H.Sugawara and H.Sato
Resonant X-Ray Scattering of PrRu₄P₁₂
J. Magn. Magn. Mater., **310** (2007) e178.
- D.Bizen, K.Nakatsuka, H.Nakao, Y.Murakami, S.Miyasaka and Y.Tokura
Pressure Effects on the Orbital Ordered State of RVO₃ (R=Y,Tb)
J. Magn. Magn. Mater., **310** (2007) 785.
- Y.Murakami, H.Nakao, T.Matsumura and K.Ohsumi
Mechanism of Resonant X-Ray Scattering to Observe the Orbital Ordering
J. Mag. Mag. Mater., **310** (2007) 723.
- N.Tatami, Y.Ando, S.Niioka, H.Kira, M.Onodera, H.Nakao, K.Iwasa, Y.Murakami, T.Kakiuchi, Y.Wakabayashi, H.Sawa and S.Itoh
Orbital Ordering and the Dilute Effect in Copper Fluoride
J. Magn. Magn. Mater., **310** (2007) 787.
- T.Inami, T.Honma, S.Tsutsui, K.Indoh, H.Onodera, K.Ishii, K.Ohwada, K.Kuzushita, H.Nakao and Y.Murakami
Resonant X-Ray Magnetic Diffraction Experiments on SmB₂C₂
J. Magn. Magn. Mater., **310** (2007) 748.
- K.Ohwada, Y.Fujii, J.Muraoka, H.Nakao, Y.Murakami, Y.Noda, H.Ohsumi, N.Ikeda, T.Shobu, M.Isobe and Y.Ueda
Structural Relations between Two Ground States of NaV₂O₅ under High Pressure: A Synchrotron X-Ray Diffraction Study
Phys. Rev. B, **76** (2007) 094113.
- H.Sakai, K.Ito, R.Kumai and Y.Tokura
Fe-Doping-Induced Evolution of Charge-Orbital Ordering in a Bicritical-State Manganite
Phys. Rev. B, **76** (2007) 155112.
- H.Abe, K.Yamamoto, S.Matsuoka and Y.Matsuo
Atomic Short-Range Order in an Al₇₂Ni₁₈Fe₁₀ Decagonal Quasicrystal Studied by Anomalous X-Ray Scattering
J. Phys.: Condens. Matter, **19** (2007) 466201.
- T.Matsumura, D.Okuyama, S.Niioka, H.Ishida, T.Satoh, Y.Murakami, H.Toiyosaki, Y.Yamada, T.Fukumura and M.Kawasaki
X-Ray Anomalous Scattering of Diluted Magnetic Oxide Semiconductors: Possible Evidence of Lattice Deformation for High Temperature Ferromagnetism
Phys. Rev. B, **76** (2007) 115320.
- S.Miyasaka, T.Yasue, J.Fujioka, Y.Yamasaki, Y.Okimoto, R.Kumai, T.Arima and Y.Tokura
Magnetic Field Switching between the Two Orbital-Ordered States in DyVO₃
Phys. Rev. Lett., **99** (2007) 217201.
- Y.Noda, H.Kimura, Y.Ishikawa, S.Kobayashi, Y.Wakabayashi, H.Sawa, N.Ikeda and K.Kohn
Lattice Modulation in YMn₂O₅ and TbMn₂O₅ Studied by Synchrotron Radiation X-Rays
J. Korean Phys. Soc., **51** (2007) 828.
- T.Tajiri, K.Sumitani, R.Haruki and A.Kohno
Preferred Crystal Orientation of Sol-Gel-Derived Bi_{4-x}La_xTi₃O₁₂ Thin Films on Silicon Substrates
IEEE Trans. on Ultrasonics, Ferroelectrics, and Frequency Control, **54** (2007) 2574.
- T.Kondo, J.Morita, K.Hanaoka, S.Takakusagi, K.Tamura, M.Takahashi, J.Mizuki and K.Uosaki
Structure of Au(111) and Au(100) Single-Crystal Electrode Surfaces at Various Potentials in Sulfuric Acid Solution by In Situ Surface X-Ray Scattering
J. Phys. Chem. C, **111** (2007) 13197.
- 5A**
- H.Yoshida, M.Yamada, Y.Ohyama, G.Takada, K.Izumori and S.Kamitori
The Structures of L-Rhamnose Isomerase from *Pseudomonas stutzeri* in Complexes with L-Rhamnose and D-Allose Provide Insights into Broad Substrate Specificity
J. Mol. Biol., **365** (2007) 1505.
- C.W.Ward, M.C.Lawrence, V.A.Streltsov, T.E.Adams and N.M.McKern
The Insulin and EGF Receptor Structures: New Insights into Ligand-Induced Receptor Activation
Trends Biochem. Sci., **32** (2007) 129.
- Y.Gaponov, N.Matsugaki, N.Honda, K.Sasajima, N.Igarashi, M.Hiraki, Y.Yamada and S.Wakatsuki
Development of Control Applications for High-Throughput Protein Crystallography Experiments
AIP Conf. Proc., **879** (2007) 1932.
- M.Hiraki, S.Watanabe, Y.Yamada, N.Matsugaki, N.Igarashi, Y.Gaponov and S.Wakatsuki
Automated Sample Exchange Robots for the Structural Biology Beam Lines at the Photon Factory
AIP Conf. Proc., **879** (2007) 1924.
- N.Matsugaki, Y.Yamada, N.Igarashi and S.Wakatsuki
Design and Construction of the High-Speed Network Connecting All the Protein Crystallography Beam Lines at the Photon Factory
AIP Conf. Proc., **879** (2007) 1936.
- A.Yoshida, T.Tomita, T.Kuzuyama and M.Nishiyama
Purification, Crystallization and Preliminary X-Ray Analysis of the Regulatory Subunit of Aspartate Kinase from *Thermus thermophilus*
Acta Cryst. F, **63** (2007) 96.
- T.Arakawa, Y.Kawano, S.Kataoka, Y.Katayama, N.Kamiya, M.Yohda and M.Odaka
Structure of Thiocyanate Hydrolase: A New Nitrile Hydratase Family Protein with a Novel Five-Coordinate Cobalt(III) Center
J. Mol. Biol., **366** (2007) 1497.
- H.Nishimasu, S.Fushinobu, H.Shoun and T.Wakagi
Crystal Structures of an ATP-Dependent Hexokinase with Broad Substrate Specificity from the Hyperthermophilic Archaeon *Sulfolobus tokodaii*
J. Biol. Chem., **282** (2007) 9923.
- A.Yoshida, T.Tomita, T.Kurihara, S.Fushinobu, T.Kuzuyama and M.Nishiyama
Structural Insight into Concerted Inhibition of $\alpha_2\beta_2$ -Type Aspartate Kinase from *Corynebacterium glutamicum*
J. Mol. Biol., **368** (2007) 521.
- Y.Yasutake, Y.Nishiyama, N.Tamura and T.Tamura
Structural Insights into Unique Substrate Selectivity of *Thermoplasma acidophilum* D-Aldohexose Dehydrogenase
J. Mol. Biol., **367** (2007) 1034.
- K.Arita, H.Hashimoto, K.Igari, M.Akaboshi, S.Kutsuna, M.Sato and T.Shimizu
Structural and Biochemical Characterization of a Cyanobacterium Circadian Clock-Modifier Protein
J. Biol. Chem., **282** (2007) 1128.
- H.Unno, F.Ichimaide, H.Suzuki, S.Takahashi, Y.Tanaka, A.Saito, T.Nishino, M.Kusunoki and T.Nakayama
Structural and Mutational Studies of Anthocyanin Malonyltransferases Establish the Features of BAHD Enzyme Catalysis
J. Biol. Chem., **282** (2007) 15812.
- N.Rouhier, H.Unno, S.Bandyopadhyay, L.Masip, S.-K.Kim, M.Hirasawa, J.M.Gualberto, V.Lattard, M.Kusunoki, D.B.Knaff, G.Georgiou, T.Hase, M.K.Johnson and J.-P.Jacquot
Functional, Structural, and Spectroscopic Characterization of a Glutathione-Ligated [2Fe-2S] Cluster in Poplar Glutaredoxin C1
Proc. Natl. Acad. Sci. USA, **104** (2007) 7379.
- H.Yoshida, M.Yamada, T.Nishitani, G.Takada, K.Izumori and S.Kamitori
Purification, Crystallization, and Preliminary X-Ray Diffraction Studies of D-Tagatose 3-Epimerase from *Pseudomonas cichorii*
Acta Cryst. F, **63** (2007) 123.
- M.-K.Kim, M.K.Cho, H.-E.Song, J.H.Lee, G.B.Kang, S.H.Kim, Y.J.Im, D.-S.Lee and S.H.Eom
Crystal Structure of UDP-N-Acetylenolpyruvylglucosamine Reductase (MurB) from *Thermus caldophilus*
Proteins, **66** (2007) 751.
- M.Yamada, R.Natsume, T.Nakamatsu, S.Horinouchi, H.Kawasaki and T.Senda
Crystallization and Preliminary Crystallographic Analysis of DtsR1, a Carboxyltransferase Subunit of Acetyl-CoA Carboxylase from *Corynebacterium glutamicum*
Acta Cryst. F, **63** (2007) 120.

- K.Kamada, Y.Kubota, T.Arata, Y.Shindo and F.Hanaoka
Structure of the Human GINS Complex and its Assembly and Functional Interface in Replication Initiation
Nature Structural Molecular Biology, **14** (2007) 388.
- Y.Bessho, R.Shibata, S.I.Sekine, K.Murayama, K.Higashijima, C.Hori-Takemoto, M.Shirouzu, S.Kuramitsu and S.Yokoyama
Structural Basis for Functional Mimicry of Long-Variable-Arm tRNA by Transfer-Messenger RNA
Proc.Natl. Acad. Sci. USA, **104** (2007) 8293.
- S.Fushinobu, M.Hidaka, A.Miyanaga and H.Imamura
New Structural Insights on Carbohydrate-Active Enzymes
J. Appl. Glycosci., **54** (2007) 95.
- T.Tonozuka, A.Sogawa, M.Yamada, N.Matsumoto, H.Yoshida, S.Kamitori, K.Ichikawa, M.Mizuno, A.Nishikawa and Y.Sakano
Structural Basis for Cyclodextrin Recognition by *Thermoactinomyces vulgaris* Cyclo/Maltodextrin-Binding Protein
FEBS J., **274** (2007) 2109.
- N.Shibata, Y.Tomimoto, T.Hanamura, R.Yamamoto, M.Ueda, Y.Ueda, N.Mizuno, H.Ogata, H.Komori, Y.Shomura, M.Kataoka, S.Shimizu, J.Kondo, H.Yamamoto, A.Kikuchi and Y.Higuchi
Crystallization and Preliminary X-Ray Crystallographic Studies of the Axin DIX Domain
Acta Cryst. F, **63** (2007) 529.
- T.Kaminishi, D.N.Wilson, C.Takemoto, J.M.Harms, M.Kawazoe, F.Schluenzen, K.Hanawa-Suetsugu, M.Shirouzu, P.Fucini and S.Yokoyama
A Snapshot of the 30S Ribosomal Subunit Capturing mRNA via the Shine-Dalgarno Interaction
Structure, **15** (2007) 289.
- Y.Sato, R.Shirakawa, H.Horiuchi, N.Dohmae, S.Fukai and O.Nureki
Asymmetric Coiled-Coil Structure with Guanine Nucleotide Exchange Activity
Structure, **15** (2007) 245.
- D.Iino, Y.Takakura, M.Kuroiwa, R.Kawakami, Y.Sasaki, T.Hoshino, K.Ohsawa, A.Nakamura and S.Yajima
Crystallization and Preliminary Crystallographic Analysis of Hygromycin B Phosphotransferase from *Escherichia coli*
Acta Cryst. F, **63** (2007) 685.
- T.Ohtsuki, S.Ohshima and A.Uchida
Purification, Crystallization and Preliminary X-Ray Diffraction Analysis of Water-Soluble Chlorophyll-Binding Protein from *Chenopodium album*
Acta Cryst. F, **63** (2007) 740.
- L.M.G.Chavas, S.Torii, H.Kamikubo, M.Kawasaki, K.Ihara, R.Kato, M.Kataoka, T.Izumi and S.Wakatsuki
Structure of the Small GTPase Rab27b Shows an Unexpectedly Swapped Dimer
Acta Cryst. D, **63** (2007) 769.
- K.Watanabe, Y.Toth, K.Suto, Y.Shimizu, N.Oka, T.Wada and K.Tomita
Protein-Based Peptide-Bond Formation by Aminoacyl-tRNA Protein Transferase
Nature, **449** (2007) 867.
- M.Hattori, Y.Tanaka, S.Fukai, R.Ishitani and O.Nureki
Crystal Structure of the MgtE Mg²⁺ Transporter
Nature, **448** (2007) 1072.
- K.Yamasaki, T.Akiba, T.Yamasaki and K.Harata
Structural Basis for Recognition of the Matrix Attachment Region of DNA by Transcription Factor SATB1
Nucleic Acids Res., **35** (2007) 5073.
- S.Goto-Ito, R.Ishii, T.Ito, R.Shibata, E.Fusatomi, S.Sekine, Y.Bessho and S.Yokoyama
Structure of an Archaeal TYW1, the Enzyme Catalyzing the Second Step of Wye-Base Biosynthesis
Acta Cryst. D, **63** (2007) 1059.
- M.Senda, S.Kishigami, S.Kimura, M.Fukuda, T.Ishida and T.Senda
Molecular Mechanism of the Redox-Dependent Interaction between NADH-Dependent Ferredoxin Reductase and Rieske-Type [2Fe-2S] Ferredoxin
J. Mol. Biol., **373** (2007) 382.
- M.Senda, S.Kishigami, S.Kimura and T.Senda
Crystallization and Preliminary X-Ray Analysis of the Electron-Transfer Complex of Rieske-Type [2Fe-2S] Ferredoxin and NADH-Dependent Ferredoxin Reductase Derived from *Acidovorax* sp. Strain KKS102
Acta Cryst. F, **63** (2007) 520.
- K.H.Nam, O.Y.Kwon, K.Sugiyama, W.H.Lee, Y.K.Kim, H.K.Song, E.E.Kim, S.-Y.Park, H.Jeon and K.Y.Hwang
Structural Characterization of the Photoswitchable Fluorescent Protein Dronpa-C62S
Biochem. Biophys. Res. Commun., **354** (4) (2007) 962.
- Y.K.Kim, K.Mizutani, K.H.Rhee, K.H.Nam, W.H.Lee, E.E.Kim, S.-Y.Park and K.Y.Hwang
Structural and Mutational Analysis of tRNA-Intron Splicing Endonuclease from *Thermoplasma acidophilum* DSM 1728: The Catalytic Mechanism of tRNA Intron-Splicing Endonucleases
J. Bacteriol., **189** (22) (2007) 8339.
- R.Ishii, A.Minagawa, H.Takaku, M.Takagi, M.Nashimoto and S.Yokoyama
The Structure of the Flexible Arm of *Thermotoga maritima* tRNase Z Differs from those of Homologous Enzymes
Acta Cryst F, **63** (2007) 637.
- H.Yoshida, M.Yamada, T.Nishitani, G.Takada, K.Izumori and S.Kamitori
Crystal Structures of D-Tagatose 3-Epimerase from *Pseudomonas cichorii* and its Complexes with D-Tagatose and D-Fructose
J. Mol. Biol., **374** (2007) 443.
- T.Nakamura, T.Tonozuka, M.Kotani, K.Obata, K.Oguma and A.Nishikawa
Crystallization and Preliminary X-Ray Analysis of the HA3 Component of *Clostridium botulinum* Type C Progenitor Toxin
Acta Cryst. F, **63** (2007) 1038.
- T.Satoh, N.P.Cowieison, W.Hakamata, H.Ideo, K.Fukushima, M.Kurihara, R.Kato, K.Yamashita and S.Wakatsuki
Structural Basis for Recognition of High Mannose Type Glycoproteins by Mammalian Transport Lectin VIP36.
J. Biol. Chem., **282** (2007) 28246.
- Y.Sugano, R.Muramatsu, A.Ichianagi, T.Sato and M.Shoda
DyP, a Unique Dye-Decolorizing Peroxidase, Represents a Novel Heme Peroxidase Family: Asp¹⁷¹ Replaces the Distal Histidine of Classical Peroxidases
J. Biol. Chem., **282** (2007) 36652.
- P.P.Datta, D.N.Wilson, M.Kawazoe, N.K.Swami, T.Kaminishi, M.R.Sharma, T.M.Booth, C.Takemoto, P.Fucini, S.Yokoyama, and R.K.Agrawal
Structural Aspects of RbfA Action during Small Ribosomal Subunit Assembly
Molecular Cell, **28** (2007) 434.
- M.Unno, T.Matsui and M.Ikeda-Saito
Structure and Catalytic Mechanism of Heme Oxygenase
Nat. Prod. Rep., **24** (2007) 553.
- Y.Kitago, S.Karita, N.Watanabe, M.Kamiya, T.Aizawa, K.Sakka and I.Tanaka
Crystal Structure of Cel44A, a Glycoside Hydrolase Family 44 Endoglucanase from *Clostridium thermocellum*
J. Biol. Chem., **282** (2007) 35703.
- Y.Kimata-Arigo, G.Kurusu, M.Kusunoki, S.Aoki, D.Sato, T.Kobayashi, K.Kita, T.Horii and T.Hase
Cloning and Characterization of Ferredoxin and Ferredoxin NADP⁺ Reductase from Human Malaria Parasite
J. Biochem., **141** (2007) 421.
- T.Saitoh, M.Igura, T.Obita, T.Ose, R.Kojima, K.Maenaka, T.Endo and D.Kohda
Tom20 Recognizes Mitochondrial Presequences through Dynamic Equilibrium among Multiple Bound States
EMBO J., **26** (2007) 4777.
- M.Igura, N.Maita, T.Obita, J.Kamishikiryo, K.Maenaka, and D.Kohda
Purification, Crystallization and Preliminary X-Ray Diffraction Studies of the Soluble Domain of the Oligosaccharyltransferase STT3 Subunit of the Thermophilic Archaeon *Pyrococcus furiosus*
Acta Cryst. F, **63** (2007) 798.

- C.Addy, M.Ohara, F.Kawai, A.Kidera, M.Ikeguchi, S.Fuchigami, M.Osawa, I.Shimada, S.-Y.Park, J.R.Tame and J.G.Heddle. Nickel Binding to NikA: an Additional Binding Site Reconciles Spectroscopy, Calorimetry and Crystallography
Acta Cryst. D, **63** (Pt2) (2007) 221.
- K.Miyazono, M.Tsujimura, Y.Kawarabayasi and M.Tanokura
Crystal Structure of an Archaeal Homologue of Multi drug Resistance Repressor Protein, EmrR, from Hyperthermophilic Archaea *Sulfolobus tokodaii* Strain
Proteins, **67** (2007) 1138.
- T.Kubota
Structure of Peptide-GalNAc Transferase: Lectin Domain and Catalytic Domain
Seikagaku, **79** (2007) 365. (in Japanese).
- T.Kubota
Structural Basis for Glyco-Peptide Recognition of pp-GalNAc-T10
Kessho Gakkaishi, **49** (2007) 225. (in Japanese).
- N.Yasui, T.Nogi, T.Kitao, Y.Nakano, M.Hattori and J.Takagi
Structure of a Receptor-Binding Fragment of Reelin and Mutational Analysis Reveal a Recognition Mechanism Similar to Endocytic Receptors
Proc. Natl. Acad. Sci. USA, **104** (2007) 9988.
- J.Y.Ha, H.K.Kim, D.J.Kim, K.H.Kim, S.J.Oh, H.H.Lee, H.J.Yoon, H.K.Song and S.W.Suh
The Recombination-Associated Protein RdgC Adopts a Novel Toroidal Architecture for DNA Binding
Nucleic Acids Research, **35** (2007) 2671.
- H.H.Lee, J.Moon and S.W.Suh
Crystal Structure of the *Helicobacter pylori* Enoyl-Acyl Carrier Protein Reductase in Complex with Hydroxydiphenyl ether Compounds, Triclosan and Diclosan
Proteins, **69** (2007) 691.
- H.H.Lee, Y.S.Kim, K.H.Kim, I.Heo, S.K.Kim, O.Kim, H.K.Kim, J.Y.Yoon, H.S.Kim, D.J.Kim, S.J.Lee, H.J.Yoon, S.J.Kim, B.G.Lee, H.K.Song, V.N.Kim, C.M.Park and S.W.Suh
Structural and Functional Insights into Dom34, a Key Component of No-Go mRNA Decay
Molecular Cell, **27** (2007) 938.
- 6A**
- H.Yoshida, M.Yamada, Y.Ohyama, G.Takada, K.Izumori and S.Kamitori
The Structures of L-Rhamnose Isomerase from *Pseudomonas stutzeri* in Complexes with L-Rhamnose and D-Allose Provide Insights into Broad Substrate Specificity
J. Mol. Biol., **365** (2007) 1505.
- M.Shiroishi, K.Tsumoto, Y.Tanaka, A.Yokota, T.Nakanishi, H.Kondo and I.Kumagai
Structural Consequences of Mutations in Interfacial Tyr Residues of a Protein Antigen-Antibody Complex: The Case of HyHEL-10-HEL
J. Biol. Chem., **282** (2007) 6783.
- C.W.Ward, M.C.Lawrence, V.A.Streltsov, T.E.Adams and N.M.McKern
The Insulin and EGF Receptor Structures: New Insights into Ligand-Induced Receptor Activation
Trends Biochem. Sci., **32** (2007) 129.
- Y.Gaponov, N.Matsugaki, N.Honda, K.Sasajima, N.Igarashi, M.Hiraki, Y.Yamada and S.Wakatsuki
Development of Control Applications for High-Throughput Protein Crystallography Experiments
AIP Conf. Proc., **879** (2007) 1932.
- N.Matsugaki, Y.Yamada, N.Igarashi and S.Wakatsuki
Design and Construction of the High-Speed Network Connecting All the Protein Crystallography Beam Lines at the Photon Factory
AIP Conf. Proc., **879** (2007) 1936.
- A.Yoshida, T.Tomita, T.Kuzuyama and M.Nishiyama
Purification, Crystallization and Preliminary X-Ray Analysis of the Regulatory Subunit of Aspartate Kinase from *Thermus thermophilus*
Acta Cryst. F, **63** (2007) 96.
- H.Nishimasu, S.Fushinobu, H.Shoun and T.Wakagi
Crystal Structures of an ATP-Dependent Hexokinase with Broad Substrate Specificity from the Hyperthermophilic Archaeon *Sulfolobus tokodaii*
J. Biol. Chem., **282** (2007) 9923.
- Y.Nijikken, T.Tsukada, K.Igarashi, M.Samejima, T.Wakagi, H.Shoun and S.Fushinobu
Crystal Structure of Intracellular Family 1 β -Glucosidase BGL1A from the Basidiomycete *Phanerochaete chrysosporium*
FEBS Lett., **581** (2007) 1514.
- A.Yoshida, T.Tomita, T.Kurihara, S.Fushinobu, T.Kuzuyama and M.Nishiyama
Structural Insight into Concerted Inhibition of $\alpha_2\beta_2$ -Type Aspartate Kinase from *Corynebacterium glutamicum*
J. Mol. Biol., **368** (2007) 521.
- Y.Yasutake, Y.Nishiya, N.Tamura and T.Tamura
Structural Insights into Unique Substrate Selectivity of *Thermoplasma acidophilum* D-Aldohexose Dehydrogenase
J. Mol. Biol., **367** (2007) 1034.
- M.Tabuchi and Y.Takeda
Atomic Scale Analysis of MOVPE Grown Heterostructures by X-Ray Crystal Truncation Rod Scattering Measurement
J. Cryst. Growth, **298** (2007) 12.
- D.Horigome, H.Satoh, N.Itoh, K.Mitsunaga, I.Oonishi, A.Nakagawa and A.Uchida
Structural Mechanism and Photoprotective Function of Water-Soluble Chlorophyll-Binding Protein
J. Biol. Chem., **282** (2007) 6525.
- S.Muto, M.Senda, Y.Akai, L.Sato, T.Suzuki, R.Nagai, T.Senda and M.Horikoshi
Relationship between the Structure of SET/TAF-I β /INHAT and its Histone Chaperone Activity
Proc. Natl. Acad. Sci. USA, **104** (2007) 4285.
- Y.Bessho, R.Shibata, S.I.Sekine, K.Murayama, K.Higashijima, C.Hori-Takemoto, M.Shirouzu, S.Kuramitsu and S.Yokoyama
Structural Basis for Functional Mimicry of Long-Variable-Arm tRNA by Transfer-Messenger RNA
Proc.Natl. Acad. Sci. USA, **104** (2007) 8293.
- S.Fushinobu, M.Hidaka, A.Miyanaga and H.Imamura
New Structural Insights on Carbohydrate-Active Enzymes
J. Appl. Glycosci., **54** (2007) 95.
- K.Okuyama, H.Narita, T.Kawaguchi, K.Noguchi, Y.Tanaka and N.Nishino
Unique Side Chain Conformation of a Leu Residue in a Triple-Helical Structure
Biopolymers, **86** (2007) 212.
- T.Tonozuka, A.Sogawa, M.Yamada, N.Matsumoto, H.Yoshida, S.Kamitori, K.Ichikawa, M.Mizuno, A.Nishikawa and Y.Sakano
Structural Basis for Cyclodextrin Recognition by *Thermoactinomyces vulgaris* Cyclo/Maltodextrin-Binding Protein
FEBS J., **274** (2007) 2109.
- A.Nakamura, A.Sosa, H.Komori, A.Kita and K.Miki
Crystal Structure of TTHA1657 (AT-Rich DNA-Binding Protein; p25) from *Thermus thermophilus* HB8 at 2.16 Å Resolution
Proteins, **66** (2007) 755.
- D.Maruyama, Y.Nishitani, T.Nonaka, A.Kita, T.A.Fukami, T.Mio, H.Yamada-Okabe, T.Yamada-Okabe and K.Miki
Crystal Structures of Uridine-diphospho-N-acetylglucosamine Pyrophosphorylase from *Candida albicans* and Catalytic Reaction Mechanism
J. Biol. Chem., **282** (2007) 17221.
- S.J.Li, Y.Umena, K.Yorita, T.Matsuoka, A.Kita, K.Fukui and Y.Morimoto
Crystallographic Study on the Interaction of L-Lactate Oxidase with Pyruvate at 1.9 Å Resolution
Biochem. Biophys. Res. Commun., **358** (2007) 1002.
- N.Maita, H.Aoyagi, M.Osanai, M.Shirakawa and H.Fujiwara
Characterization of the Sequence Specificity of the R1Bm Endonuclease Domain by Structural and Biochemical Studies
Nucl. Acids Res., **35** (2007) 3918.
- S.Yajima, K.Hara, D.Iino, Y.Sasaki, T.Kuzuyama, K.Ohsawa and H.Seto
Structure of 1-deoxy-D-xylulose 5-phosphate Reductoisomerase in a Quaternary Complex with a Magnesium Ion, NADPH and the Antimalarial Drug Fosmidomycin
Acta Cryst. F, **63** (2007) 466.

- D.Iino, Y.Takakura, M.Kuroiwa, R.Kawakami, Y.Sasaki, T.Hoshino, K.Ohsawa, A.Nakamura and S.Yajima
Crystallization and Preliminary Crystallographic Analysis of Hygromycin B Phosphotransferase from *Escherichia coli*
Acta Cryst. F, **63** (2007) 685.
- T.Ohtsuki, S.Ohshima and A.Uchida
Purification, Crystallization and Preliminary X-Ray Diffraction Analysis of Water-Soluble Chlorophyll-Binding Protein from *Chenopodium album*
Acta Cryst. F, **63** (2007) 740.
- L.M.G.Chavas, S.Torii, H.Kamikubo, M.Kawasaki, K.Ihara, R.Kato, M.Kataoka, T.Izumi and S.Wakatsuki
Structure of the Small GTPase Rab27b Shows an Unexpected Swapped Dimer
Acta Cryst. D, **63** (2007) 769.
- H.Watanabe, K.Tsumoto, S.Taguchi, K.Yamashita, Y.Do, Y.Nishimiya, H.Kondo, M.Umetsu and I.Kumagai
A Human Antibody Fragment with High Affinity for Biodegradable Polymer Film
Bioconjugate Chem., **18** (2007) 645.
- K.Sasaki, T.Ose, N.Okamoto, K.Maenaka, T.Tanaka, H.Masai, M.Saito, T.Shirai and D.Kohda
Structural Basis of the 3'-end Recognition of a Leading Strand in Stalled Replication Forks by PriA
EMBO J., **26** (2007) 2584.
- M.Senda, S.Kishigami, S.Kimura, M.Fukuda, T.Ishida and T.Senda
Molecular Mechanism of the Redox-Dependent Interaction between NADH-Dependent Ferredoxin Reductase and Rieske-Type [2Fe-2S] Ferredoxin
J. Mol. Biol., **373** (2007) 382.
- H.Yoshida, M.Yamada, T.Nishitani, G.Takada, K.Izumori and S.Kamitori
Crystal Structures of D-Tagatose 3-Epimerase from *Pseudomonas cichorii* and its Complexes with D-Tagatose and D-Fructose
J. Mol. Biol., **374** (2007) 443.
- M.Das, M.Kobayashi, Y.Yamada, S.Sreeramulu, C.Ramakrishnan, S.Wakatsuki, R.Kato and R.Varadarajan
Design of Disulfide-Linked Thioredoxin Dimers and Multimers through Analysis of Crystal Contacts
J. Mol. Biol., **372** (2007) 1278.
- T.Satoh, N.P.Cowieison, W.Hakamata, H.Ideo, K.Fukushima, M.Kurihara, R.Kato, K.Yamashita and S.Wakatsuki
Structural Basis for Recognition of High Mannose Type Glycoproteins by Mammalian Transport Lectin VIP36.
J. Biol. Chem., **282** (2007) 28246.
- M.Nagae, A.Tsuchiya, T.Katayama, K.Yamamoto, S.Wakatsuki and R.Kato
Structural Basis of the Catalytic Reaction Mechanism of Novel 1,2- α -L-Fucosidase(AFCA) from *Bifidobacterium bifidum*
J. Biol. Chem., **282** (2007) 18497.
- Y.Sugano, R.Muramatsu, A.Ichianagi, T.Sato and M.Shoda
DyP, a Unique Dye-Decolorizing Peroxidase, Represents a Novel Heme Peroxidase Family: Asp¹⁷¹ Replaces the Distal Histidine of Classical Peroxidases
J. Biol. Chem., **282** (2007) 36652.
- Y.Yasutake, N.Imoto, Y.Fujii, T.Fujii, A.Arisawa and T.Tamura
Crystal Structure of Cytochrome P450 MoxA from *Nonomuraea recticatena* (CYP105)
Biochem. Biophys. Res. Commun., **361** (2007) 876.
- M.Unno, T.Matsui and M.Ikeda-Saito
Structure and Catalytic Mechanism of Heme Oxygenase
Nat. Prod. Rep., **24** (2007) 553.
- H.Okamura, K.Yokoyama, H.Koike, M.Yamada, A.Shimowasa, M.Kabasawa, T.Kawashima and M.Suzuki
A Structural Code for Discriminating between Transcription Signals Revealed by the Feast/Famine Regulatory Protein DM1 in Complex with Ligands
Structure, **15** (2007) 1325.
- T.Saitoh, M.Igura, T.Obita, T.Ose, R.Kojima, K.Maenaka, T.Endo and D.Kohda
Tom20 Recognizes Mitochondrial Presequences through Dynamic Equilibrium among Multiple Bound States
EMBO J., **26** (2007) 4777.
- M.Igura, N.Maita, T.Obita, J.Kamishikiryo, K.Maenaka, and D.Kohda
Purification, Crystallization and Preliminary X-Ray Diffraction Studies of the Soluble Domain of the Oligosaccharyltransferase STT3 Subunit from the Thermophilic Archaeon *Pyrococcus furiosus*
Acta Cryst. F, **63** (2007) 798.
- A.Ohtaki, Y.Nakano, R.Iizuka, T.Arakawa, K.Yamada, M.Odaka and Y.Yohda
Structure of Aspartate Racemase Complexed with a Dual Substrate Analogue, Citric Acid, and Implications for the Reaction Mechanism proteins, **70** (2007) 1167.
- T.Kubota
Structure of Peptide-GalNAc Transferase: Lectin Domain and Catalytic Domain
Seikagaku, **79** (2007) 365. (*in Japanese*).
- T.Kubota
Structural Basis for Glyco-Peptide Recognition of pp-GalNAc-T10
Kessho Gakkaishi, **49** (2007) 225. (*in Japanese*).
- J.Y.Ha, H.K.Kim, D.J.Kim, K.H.Kim, S.J.Oh, H.H.Lee, H.J.Yoon, H.K.Song and S.W.Suh
The Recombination-Associated Protein RdcC Adopts a Novel Toroidal Architecture for DNA Binding
Nucleic Acids Research, **35** (2007) 2671.
- H.H.Lee, J.Moon and S.W.Suh
Crystal Structure of the *Helicobacter pylori* Enoyl-Acyl Carrier Protein Reductase in Complex with Hydroxydiphenyl ether Compounds, Triclosan and Diclosan
Proteins, **69** (2007) 691.
- H.H.Lee, Y.S.Kim, K.H.Kim, I.Heo, S.K.Kim, O.Kim, H.K.Kim, J.Y.Yoon, H.S.Kim, D.J.Kim, S.J.Lee, H.J.Yoon, S.J.Kim, B.G.Lee, H.K.Song, V.N.Kim, C.M.Park and S.W.Suh
Structural and Functional Insights into Dom34, a Key Component of No-Go mRNA Decay
Molecular Cell, **27** (2007) 938.
- 6C**
- K.Fukuda, Y.Ebina, T.Shibata, T.Aizawa, I.Nakai and T.Sasaki
Unusual Crystallization Behaviors of Anatase Nanocrystallites from a Molecularly Thin Titania Nanosheet and its Stacked Forms: Increase in Nucleation Temperature and Oriented Growth
J. Am. Chem. Soc., **129** (2007) 202.
- T.Hanashima, N.Shimizu, K.Yamawaki and S.Sasaki
Calculation of X-Ray Magnetic Circular Dichroism for Sr-Substituted LaCoO₃ by Discrete-Variational Hartree-Fock-Slater Method
Jpn. J. Appl. Phys., **46** (2007) 988.
- S.Ohsawa, M.Okube, T.Aki, S.Sakurai, N.Shimizu, K.Ohkubo, T.Toyoda, T.Mori and S.Sasaki
Resonant X-Ray Magnetic Scattering Study of BaFe₁₂O₁₉ and BaTiCoFe₁₀O₁₉
Am. Inst. Phys., Conf. Proc., **879** (2007) 1715.
- S.Hosokawa, N.Happo and K.Hayashi
Three-Dimensional Structural Image of Zn_{0.4}Mn_{0.6}Te Diluted Magnetic Semiconductor Obtained by X-Ray Fluorescence Holography
J. Magn. Magn. Mater., **310** (2007) 2707.
- S.Hosokawa, T.Ozaki, K.Hayashi, N.Happo, M.Fujiwara, K.Horii, P.Fons, A.V.Kolobov and J.Tominaga
Existence of Tetrahedral Site Symmetry about Ge Atoms in a Single-Crystal Film of Ge₂Sb₂Te₅ Found by X-Ray Fluorescence Holography
Appl. Phys. Lett., **90** (2007) 131913.
- N.Ohta, K.Takada, I.Sakaguchi, L.Zhang, R.Ma, K.Fukuda, M.Osada and T.Sasaki
LiNbO₃-Coated LiCoO₂ as Cathode Material for All Solid-State Lithium Secondary Batteries
Electrochem. Commun., **9** (2007) 1486.
- T.Shibata, N.Sakai, K.Fukuda, Y.Ebina and T.Sasaki
Photocatalytic Properties of Titania Nanostructured Films Fabricated from Titania Nanosheets
Phys. Chem. Chem. Phys., **9** (2007) 2413.

K.Fukuda, I.Nakai, Y.Ebina, R.Ma and T.Sasaki
Colloidal Unilamellar Layers of Tantalum Oxide
with Open Channels
Inorg. Chem., **46** (2007) 4787.

M.Yashima and Y.Kawai
Crystal Structure and Site Preference
of Ba-Doped-Tricalcium Phosphate
(Ca_{1-x}Ba_x)₃(PO₄)₂ through High-Resolution
Synchrotron Powder Diffraction ($x = 0.05$ to
0.15)
Chem. Mater., **19** (2007) 3973.

L.Li, R.Ma, Y.Ebina, K.Fukuda, K.Takada and
T.Sasaki
Layer-by-Layer Assembly and Spontaneous
Flocculation of Oppositely Charged Oxide and
Hydroxide Nanosheets into Inorganic Sandwich
Layered Materials
J. Am. Chem. Soc., **129** (2007) 8000.

H.Ishibashi and T.Yasumi
Structural Transition of Spinel Compound
NiCr₂O₄ at Ferrimagnetic Transition
Temperature
J. Magn. Magn. Mater., **310** (2007) e610.

M.Yashima
Crystal Structure and Electron Density of
Inorganic Materials Studied by High-Resolution
Synchrotron Powder Diffractometry
J. Crystallogr. Soc. Jpn., **49** (2007) 354. (*in
Japanese*).

T.Ozawa, K.Fukuda, K.Akatsuka, Y.Ebina and
T.Sasaki
Preparation and Characterization of the Eu³⁺
Doped Perovskite Nanosheet Phosphor:
La_{0.90}Eu_{0.05}Nb₂O₇
Chem. Mater., **19** (2007) 6575.

R.Ma, K.Takada, K.Fukuda, N.Iyi, Y.Bando and
T.Sasaki
Topochemical Synthesis of Monometallic (Co²⁺-
Co³⁺) Layered Double Hydroxide and its
Exfoliation into Positively Charged Co(OH)₂
Nanosheets
Angew. Chem. Int. Ed., **47** (2007) 86.

7A

J.Miyawaki, D.Matsumura, H.Abe, T.Otsuki,
E.Sakai, K.Amemiya and T.Ohta
Spin Reorientation Transition in Ultrathin Co
Films on Ru(0001) Induced by Ru Capping
AIP Conf. Proc., **882** (2007) 505.

H.Abe, K.Amemiya, D.Matsumura, T.Ohtsuki,
E.Sakai, T.Yokoyama and T.Ohta
Depth-Resolved XMCD Application to
Fe/Ni/Cu(001) Films
AIP Conf. Proc., **882** (2007) 384.

H.Kizaki, Y.Matsumoto, H.Ban, K.Morishita,
Y.Sera, S.Wada and K.Tanaka
Configuration Dependence of Photon Stimulated
Ion Desorption from Methyl Ester Compounds
Induced by Core Excitation
Surf. Sci., **601** (2007) 3956.

I.Nakai, H.Kondoh, T.Shimada, R.Yokota,
T.Katayama, T.Ohta and N.Kosugi
Geometric and Electronic Structures of NO
Dimer Layers on Rh(111) Studied with NEXAFS
Spectroscopy: Experiment and Theory
J. Chem. Phys., **127** (2007) 024701.

7C

S.Takenaka, H.Umeybayashi, E.Tanabe,
H.Matsune and M.Kishida
Specific Performance of Silica-Coated Ni
Catalysts for the Partial Oxidation of Methane to
Synthesis Gas
J. Catal., **245** (2007) 392.

A.Suzuki, Y.Inada, K.Asakura and M.Nomura
Time-Resolved DXAFS Study of Adsorption and
Release of Hydrogen on Pt/MCM-41
AIP Conf. Proc., **882** (2007) 675.

Y.Izumi, D.Masih, J.P.Candy, H.Yoshitake,
Y.Terada, H.Tanida and T.Uruga
State-Sensitive Monitoring of Active and
Promoter Sites. Applications to Au/Titania and
Pt-Sn/Silica Catalysts by XAFS Combined with
X-Ray Fluorescence Spectrometry
AIP Conf. Proc., **882** (2007) 588.

M.Harada and H.Einaga
Preparation of Pt/Rh Bimetallic Colloidal
Particles in Polymer Solutions using
Borohydride-Reduction
J. Colloid Interface Sci., **308** (2007) 568.

T.Kawai, K.K.Bando, Y.-K.Lee, S.T.Oyama, W.-
J.Chun and K.Asakura,
In Situ EXAFS Studies on Ni₂P
Hydrodesulfurization Catalysts in the Presence
of High Pressure and High Temperature Oil
AIP Conf. Proc., **882** (2007) 616.

Y.Iwama, N.Ichikuni, K.K.Bando and S.Shimazu
Effect of Co Addition for Carburizing Process of
Ti-Oxide/SiO₂ into TiC/SiO₂
Appl. Catal. A, **323** (2007) 104.

Y.Furukawa, A.Yoshiasa, H.Arima, M.Okube,
K.Murai and T.Nishiyama
Local Structure of Transition Element
(V,Cr,Mn,Fe and Zn) in Al₂SiO₅ Polymorphs
The American Institute of Physics, Conf. Proc.,
882 (2007) 235.

T.Hashimoto, A.Yoshiasa, M.sugahara,
M.Okube, H.Okudera and A.Nakatsuka
Temperature Dependence of XANES Spectra
for ATiO₃, A₂TiO₄ and TiO₂ Compounds with
Structural Phase Transitions
AIP Conf. Proc., **882** (2007) 428.

D.Masih, H.Yoshitake and Y.Izumi
Photo-Oxidation of Ethanol on Mesoporous
Vanadium-Titanium Oxide Catalysts and the
Relation to Vanadium(IV) and (V) Sites
Appl. Catal. A, **325** (2007) 276.

J.Chaboy, N.Nakajima and Y.Tezuka
Ab initio X-Ray Absorption Near-Edge Structure
Study of Ti K-Edge in Rutile
J. Phys.: Condens. Matter, **19** (2007) 266206.

M.Tabuchi, Y.Nabeshima, M.Shikano, K.Ado,
H.Kageyama and K.Tatsumi
Optimizing Chemical Composition and
Preparation Conditions for Fe-Substituted
Li₂MnO₃ Positive Electrode Material
J. Electrochem. Soc., **154** (2007) A638.

J.Lu, X.Zhang, J.J.Bravo-Suarez, K.K.Bando,
T.Fujitani and S.T.Oyama
Direct Propylene Epoxidation over Barium-
Promoted Au/Ti-TUD Catalysts with H₂ and O₂:
Effect of Au Particle Size
J. Catal., **250** (2007) 350.

K.Shimizu, R.Maruyama, T.Hatamachi and
T.Kodama
O₂-Bridged Multicopper(II) Complex in Zeolite
for Catalytic Direct Photo-Oxidation of Benzene
to Diphenols
J. Phys. Chem. C, **111** (2007) 6440.

D.Masih, Y.Izumi, K. Aika and Y.Seida
Optimization of an Iron Intercalated
Montmorillonite Preparation for the Removal of
Arsenic at Low Concentrations
Eng. Life Sci., **7** (2007) 52.

Y.Izumi, K.Konishi, D.M.Obaid, T.Miyajima and
H.Yoshitake
X-Ray Absorption Fine Structure Combined with
X-Ray Fluorescence Spectroscopy. Monitoring
of Vanadium Site in Mesoporous Titania Excited
under Visible Light by Selective Detection of the
Vanadium K β _{5,2} Fluorescence
Anal. Chem., **79** (2007) 6933.

Y.Izumi, K.Konishi, D.Masih, H.Yoshitake and
T.Uruga
Selective Spectroscopy to Correlate Local Nano-
structure with Nano-Catalysis
Abstract of NanoSMat (International Conference
on Surfaces, Coatings, and Nanostructured
Materials), (2007) 118.

Y.Izumi, K.Konishi, D.Masih and H.Yoshitake
Development and Monitoring of Mesoporous
Vanadium Catalysts under Visible Light
Abstract of 3rd International Conference on
Environmental Science and Technology, (2007)
88.

Y.Izumi, K.Konishi, H.Yoshitake
Development of Mesoporous V-TiO₂
Photocatalysts and the in-situ Monitoring
by Selective Spectroscopy
Syokubai, **49** (2007) 394. (*in Japanese*).

S.Sugiyama, Y.Hirata, T.Osaka, T.Moriga,
K.Nakagawa and K.I.Sotowa
⁵¹V MAS NMR and XAFS Evidences for Redox
of Magnesium *Pyro*- and *Ortho*-Vanadates on the
Oxidative Dehydrogenation of Propane
J. Ceramic Soc. Jpn., **115** (2007) 667.

K.Hara, T.Tanigawa, K.Yanagihara, A.Nishida
and S.Yoshioka
Effect of Organic-Solvent Treatment on Swelling
of Poly(acrylamide-co-sodiumacrylate) Gel
Trans. Mat. Res. Soc. Jpn., **32** (2007) 799.

- A.Ikeda, T.Yaita, Y.Okamoto, H.Shiwaku, S.Suzuki, T.Suzuki and Y.Fujii
Extended X-Ray Absorption Fine Structure Investigation of Adsorption and Separation Phenomena of Metal Ions in Organic Resin
Anal. Chem., **79** (2007) 8016.
- O.Haruyama, K.Sugiyama, M.Sakurai and Y.Waseda
A Local Structure Change of Bulk Pd₄₀Ni₄₀P₂₀ Glass during Full Relaxation
J. Non-Cryst. Solids, **353** (2007) 3053.
- H.Ikemoto, T.Miyanaga, T.Kiuchi
Phase Transitions of Bismuth Clusters
J. Non-Cryst. Solids, **353** (2007) 3394.
- L.Yuliaty, H.Itoh and H.Yoshida
Photocatalytic Direct Conversion of Methane on Silica-Titania Catalysts
Studies Surf. Sci. Catal., **172** (2007) 457.
- S.Suzuki, M.Nakamura, K.Kinoshita, Y.Koike, K.Fujikawa, N.Matsudaira, W.-J.Chun, M.Nomura and K.Asakura
Improvement of the XANAM System and Acquisition of a Peak Signal with a High S/N Ratio
J. Phys. Conf. Ser., **61** (2007) 1171.
- M.Harada and H.Einaga
In Situ XAFS Studies of Au Particle Formation by Photoreduction in Polymer Solutions
Langmuir, **23** (2007) 6536.
- S.Sugiyama, T.Osaka, Y.Hirata, Y.Kondo, K.Nakagawa and K.Sotowa
Redox Nature of Fe-Incorporated Magnesium *ortho*-Vanadate as a Catalyst for the Oxidative Dehydrogenation of Propane
J. Chem. Eng. Jpn., **40** (2007) 1064.
- K.Kakimoto, T.Imura, Y.Fukui, M.Kuno, K.Yamagiwa, T.Mitsuoka and K.Ohbayashi
Processing of Piezoelectric (Li,Na,K)NbO₃ Porous Ceramics and (Li,Na,K)NbO₃/KNbO₃ Composites
Jpn. J. Appl. Phys., **46**, No.10B (2007) 7089.
- K.Tanaka, H.Hayashi, K.Kakimoto, H.Ohsato and T.Iijima
Effect of (Na,K)-Excess Precursor Solutions on Alkoxy-Derived (Na,K)NbO₃ Powders and Thin Films
Jpn. J. Appl. Phys., **46**, No.10B (2007) 6964.
- K.Tanaka, K.Kakimoto, H.Ohsato and T.Iijima
Composition Dependence of Crystallinity for Lead-Free (Li, Na, K)NbO₃ Powder and Thin Films Fabricated by Sol-Gel Process
Ferroelectrics, **358** (2007) 175.
- T.Kokubo, K.Kakimoto and H.Ohsato
Effect of Processing Parameters of KNbO₃ Powder Prepared from Aqueous Solution of Layered Perovskite
Ferroelectrics, **356** (2007) 215.
- K.Higashide, K.Kakimoto and H.Ohsato
Temperature Dependence on the Piezoelectric Property of (1-x)(Na_{0.5}K_{0.5})NbO₃-xLiNbO₃ Ceramics
J. Eur. Ceram. Soc., **27** (2007) 4107.
- K.Kakimoto, T.Yoshifuji and H.Ohsato
Densification of Tungsten-Bronze KBa₂Nb₅O₁₅ Lead-Free Piezoceramics
J. Eur. Ceram. Soc., **27** (2007) 4111.
- S.Hamada, S.Hibarino, K.Ikeue and M.Machida
Preparation of Supported Pt-M Catalysts (M=Mo and W) from Anion-Exchanged Hydrotalcites and their Catalytic Activity for Low Temperature NO-H₂-O₂ Reaction
Appl. Catal. B: Environ., **74** (2007) 197.
- H.Nitani, T.Nakagawa, H.Daimon, Y.Kurobe, T.Ono, Y.Honda, A.Koizumi, S.Seino and T.A.Yamamoto
Methanol Oxidation Catalysis and Substructure of PtRu Bimetallic Nanoparticles
Appl. Catal. A: General, **326** (2007) 194.
- T.Ohkura, Y.Fujimoto, M.Nakatsuka, S.Y.-Seok
Local Structures of Bismuth Ion in Bismuth-Doped Silica Glasses Analyzed Using Bi LIII X-Ray Absorption Fine Structure
J. Am. Ceram. Soc., **90** (2007) 3596.
- T.Aoki, M.Harada and T.Okada
Characterization of Bromide Ions in Charge-Stacked Zwitterionic Micellar Systems
Langmuir, **23** (2007) 8820.
- M.Harada, H.Satou and T.Okada
Hydration Structures of Bromides on Cationic Micelles
J. Phys. Chem. B, **111** (2007) 12136.
- T.Ohki, M.Harada and T.Okada
Structural and Thermodynamic Aspects of Ionic Solvation in Concentrated Aqueous Poly(ethylene glycol)
J. Phys. Chem. B, **111** (2007) 7245.
- K.Mori, Y.Kondo, S.Morimoto and H.Yamashita
A Multifunctional Heterogeneous Catalyst: Titanium-Containing Mesoporous Silica Material Encapsulating Magnetic Iron Oxide Nanoparticles
Chem. Lett., **36** (2007) 1068.
- K.Mori, S.Imaoka, S.Nishio, Y.Nishiyama, N.Nishiyama and H.Yamashita
Investigation of Local Structures and Photo-Induced Surface Properties on Transparent Me(Ti,Cr)-Containing Mesoporous Silica Thin Films
Micropor. Mesopor. Mater., **101** (2007) 288.
- T.Kadono, T.Kubota, H.Chatani and Y.Okamoto
Structure of Molybdenum Sulfide Clusters Encaged in Zeolites: Effect of Zeolite Composition
Micropor. Mesopor. Mater., **101** (2007) 191.
- old 8A**
- E.Kobayashi, A.Nambu, T.Kakiuchi and K.Mase
Silicon Single Crystal Wafer Holder with a Cold Trap and a Direct Current Heating Mechanism Mounted on a Conflat Flange with an Outer Diameter of 70 mm
J. Vac. Soc. Jpn., **50** (2007) 57. (*in Japanese*).
- T.Kakiuchi, E.Kobayashi, N.Okada, K.Oyamada, M.Okusawa, K.K.Okudaira and K.Mase
Development of an Electron Electron Ion Coincidence Analyzer for Auger Photoelectron Coincidence Spectroscopy (APECS) and Electron Ion Coincidence (EICO) Spectroscopy
J. Elec. Spec. Relat. Phenom., **161** (2007) 164.
- 9A**
- Y.Izumi, D.Masih, K.Aika and Y.Seida
Erratum to "Creation of Micro and Mesoporous Fe^{III} Materials Utilizing Organic Template Followed by Carboxylates Exchange for the Low Concentrations of Arsenic Removal" [Microporous and Mesoporous Materials 94 (2006) 243]
Micropor. Mesopor. Mater., **99** (2007) 355.
- M.Harada and H.Einaga
Preparation of Pt/Rh Bimetallic Colloidal Particles in Polymer Solutions using Borohydride-Reduction
J. Colloid Interface Sci., **308** (2007) 568.
- T.Kawai, K.K.Bando, Y.-K.Lee, S.T.Oyama, W.-J.Chun and K.Asakura
In Situ EXAFS Studies on Ni₂P Hydrodesulfurization Catalysts in the Presence of High Pressure and High Temperature Oil
AIP Conf. Proc., **882** (2007) 616.
- W.J.Chun, Y.Koike, K.Ijima, K.Fujikawa, H.Ashima, M.Nomura, Y.Iwasawa and K.Asakura
Preparation of Atomically Dispersed Cu Species on a TiO₂(110) Surface Premodified with an Organic Compound
Chem. Phys. Lett., **433** (2007) 345.
- M.Ushiro, K.Asakura, K.Ohminami, S.Nagamatsu and T.Fujikawa
Ni K-Edge XANES Analyses of Residual Ni Catalyst in Carbon Nanofiber using Full Multiple Scattering Theory
AIP Conf. Proc., **882** (2007) 786.
- M.Tada, S.Murata, T.Asaoka, K.Hiroshima, K.Okumura, H.Tanida, T.Uruga, Y.Inada, M.Nomura, H.Nakanishi, S.Matsumoto and Y.Iwasawa
In-Situ Time-Resolved XAFS Study on Power-on/off Processes of Pt/C Cathode in Fuel Cell
Shokubai, **49** (2007) 93. (*in Japanese*).
- M.Uo, K.Asakura, A.Yokoyama, M.Ishikawa, K.Tamura, Y.Totsuka, T.Akasaka and F.Watari
X-Ray Absorption Fine Structure (XAFS) Analysis of Titanium-Implanted Soft Tissue
Dental Mater. J., **26** (2007) 268.
- K.Okamoto, M.Yoshino, M.Shigeiwa, M.Mikami, T.Akai, N.Kijima, T.Honma and M.Nomura
Analysis of the Local Structure around Eu and Mn Ions in Alkaline-Earth Silicate Phosphors for White Light Illumination
AIP Conf. Proc., **882** (2007) 520.

- Y.Yamashita, Y.Takahashi, H.Haba, S.Enomoto and H.Shimizu
Comparison of Reductive Accumulation of Re and Os in Seawater-Sediment Systems
Geochimica et Cosmochimica Acta, **71** (2007) 3458.
- M.Matsuura, M.Sakurai, W.Zhang and A.Inoue
Local Structures around Zr, Ni, and Cu for the $Zr_{67}Cu_{33}$ and $Zr_{67}Ni_{33}$ Metallic Glasses
Mater. Sci. Forum, **539-543** (2007) 1959.
- M.Matsuura, K.Konno, K.Asada, M.Sakurai, W.Zhang and A.Inoue
Embrittlement and Local Structures for the Cu-, Ni- and Zr-Based Metallic Glasses
Materials Science and Engineering A, **449-451** (2007) 535.
- K.Nitta, D.Kikuchi, T.Miyanaga, K.Takegahara, H.Sugawara and H.Sato
EXAFS Study of Filled Skutterudites $PrOs_4Sb_{12}$ and $LaOs_4Sb_{12}$
AIP Conf. Proc., **882** (2007) 265.
- J.Lu, X.Zhang, J.J.Bravo-Suarez, K.K.Bando, T.Fujitani and S.T.Oyama
Direct Propylene Epoxidation over Barium-Promoted Au/Ti-TUD Catalysts with H_2 and O_2 : Effect of Au Particle Size
J. Catal., **250** (2007) 350.
- D.Masih, Y.Izumi, K. Aika and Y.Seida
Optimization of an Iron Intercalated Montmorillonite Preparation for the Removal of Arsenic at Low Concentrations
Eng. Life Sci., **7** (2007) 52.
- Y.Izumi, K.Konishi, D.M.Obaid, T.Miyajima and H.Yoshitake
X-Ray Absorption Fine Structure Combined with X-Ray Fluorescence Spectroscopy. Monitoring of Vanadium Site in Mesoporous Titania Excited under Visible Light by Selective Detection of the Vanadium $K\beta_{5,2}$ Fluorescence
Anal. Chem., **79** (2007) 6933.
- Y.Izumi, K.Konishi, D.Masih, H.Yoshitake and T.Uruga
Selective Spectroscopy to Correlate Local Nanostructure with Nano-Catalysis
Abstract of NanoSMat (International Conference on Surfaces, Coatings, and Nanostructured Materials), (2007) 118.
- Y.Izumi, K.Konishi, D.Masih and H.Yoshitake
Development and Monitoring of Mesoporous Vanadium Catalysts under Visible Light
Abstract of 3rd International Conference on Environmental Science and Technology, (2007) 88.
- Y.Izumi, K.Konishi, H.Yoshitake
Development of Mesoporous V-TiO₂ Photocatalysts and the in-situ Monitoring by Selective Spectroscopy
Syokubai, **49** (2007) 394. (*in Japanese*).
- M.Tada and Y.Iwasawa
Advanced Design of Catalytically Active Reaction Space at Surfaces for Selective Catalysis
Coord. Chem. Rev., **251** (2007) 2702.
- K.Hara, T.Tanigawa, K.Yanagihara, A.Nishida and S.Yoshioka
Effect of Organic-Solvent Treatment on Swelling of Poly(acrylamide-co-sodiumacrylate) Gel
Trans. Mat. Res. Soc. Jpn., **32** (2007) 799.
- Y.Takahashi, T.Uruga, K.Suzuki, H.Tanida, Y.Terada and K.H.Hattori
An Atomic Level Study of Rhenium and Radiogenic Osmium in Molybdenite
Geochimica et Cosmochimica Acta, **71** (2007) 5180.
- M.Takaoka
Investigation on Formation Process of Dioxins using XAFS
J. Jpn. Soc. Synchrotron Rad. Res., **20** (2007) 180. (*in Japanese*).
- F.Zhu, M.Takaoka, K.Oshita, T.Matsumoto, N.Takeda, H.Tsuno and S.Morisawa
The Study on Chemical Form of Chloride in Raw Fly Ash
The 13th Seminar of JSPS-MOE Core University Program on Urban Environment, (2007) 427.
- S.Nakashima, K.Fujita, K.Tanaka, K.Hirao, T.Yamamoto and I.Tanaka
First-Principles XANES Simulations of Spinel Zinc Ferrite with a Disordered Cation Distribution
Phys. Rev. B, **75** (2007) 174443.
- S.Kimura, S.Emura, H.Ofuchi, Y.Nakata, Y.K.Zhou, S.W.Choi, Y.Yamauchi, S.Hasegawa and H.Asahi.
Cr Atom Alignment in Cr-Delta-Doped GaN
AIP Conf. Proc., **882** (2007) 410.
- M.Tada, R.Bal, X.Mu, R.Coquet, S.Namba and Y.Iwasawa
Low-Temperature PROX (Preferential Oxidation) on Novel CeO₂-Supported Cu-Cluster Catalysts under Fuel-Cell Operating Conditions
Chem. Commun., (2007) 4689.
- T.Yamamoto, A.Suzuki, Y.Nagai, T.Tanabe, F.Dong, Y.Inada, M.Nomura, M.Tada and Y.Iwasawa
Origin and Dynamics of Oxygen Storage/Release in a Pt/Ordered CeO₂-ZrO₂ Catalyst Studied by Time-Resolved XAFS Analysis
Angew. Chem. Int. Ed., **46** (2007) 9253.
- I.Nakai, H.Tanaka, A.Kitabatake, J.Fukuoka, S.Yamada and N.Ohnishi
Cu K Edge X-Ray Magnetic Circular Dichroism of Amorphous Gd₆₈Cu₃₂
J. Magn. Magn. Mater., **310** (2007) 1868.
- T.Aoki, M.Harada and T.Okada
Characterization of Bromide Ions in Charge-Stacked Zwitterionic Micellar Systems
Langmuir, **23** (2007) 8820.
- M.Harada, H.Satou and T.Okada
Hydration Structures of Bromides on Cationic Micelles
J. Phys. Chem. B, **111** (2007) 12136.
- T.Ohki, M.Harada and T.Okada
Structural and Thermodynamic Aspects of Ionic Solvation in Concentrated Aqueous Poly(ethylene glycol)
J. Phys. Chem. B, **111** (2007) 7245.
- 9C**
- B.Li, S.Kado, Y.Mukainakano, T.Miyazawa, T.Miyao, S.Naito, K.Okumura, K.Kunimori and K.Tomishige
Surface Modification of Ni Catalysts with Trace Pt for Oxidative Steam Reforming of Methane
J. Catal., **245** (2007) 144.
- Y.Mukainakano, B.Li, S.Kado, T.Miyazawa, K.Okumura, T.Miyao, S.Naito, K.Kunimori and K.Tomishige
Surface Modification of Ni Catalysts with Trace Pd and Rh for Oxidative Steam Reforming of Methane
Appl. Catal. A, **318** (2007) 252.
- Y.Izumi, D.Masih, J.P.Candy, H.Yoshitake, Y.Terada, H.Tanida and T.Uruga
State-Sensitive Monitoring of Active and Promoter Sites. Applications to Au/Titania and Pt-Sn/Silica Catalysts by XAFS Combined with X-Ray Fluorescence Spectrometry
AIP Conf. Proc., **882** (2007) 588.
- Y.Iwama, N.Ichikuni, K.K.Bando and S.Shimazu
Effect of Co Addition for Carburizing Process of Ti-Oxide/SiO₂ into TiC/SiO₂
Appl. Catal. A, **323** (2007) 104.
- D.Bizen, K.Nakatsuka, H.Nakao, Y.Murakami, S.Miyasaka and Y.Tokura
Pressure Effects on the Orbital Ordered State of RVO₃ (R=Y,Tb)
J. Magn. Magn. Mater., **310** (2007) 785.
- H.Takahashi, T.Hayakawa, Y.Kawasaki, K.Ito, T.Fujisawa, M.Kodama and T.Kobayashi
Structural Characterization of N-Lignoceryl (C24:0) Sphingomyelin Bilayer Membranes: a Re-Evaluation
J. Appl. Cryst., **40** (2007) s312.
- Y.Yamamoto, Y.Inoue, T.Onai, C.Doshu, H.Takahashi and H.Uehara
Deconvolution Analyses of Differential Scanning Calorimetry Profiles of β -Crystallized Polypropylenes with Synchronized X-Ray Measurements
Macromolecules, **40** (2007) 2745.
- Y.Furukawa, A.Yoshiasa, H.Arima, M.Okube, K.Murai and T.Nishiyama
Local Structure of Transition Element (V,Cr,Mn,Fe and Zn) in Al₂SiO₅ Polymorphs
The American Institute of Physics, Conf. Proc., **882** (2007) 235.
- S.Sakai, A.Yoshiasa, H.Arima, M.Okube, C.Numako and T.Sato
XAFS Study of As in K-T Boundary Clay
AIP Conf. Proc., **882** (2007) 274.

K.Yamamoto, K.Nanbu, Y.Miwa, H.Takagi, S.Hara and S.Shimada
Molecular Mobility of Chain Ends of Matrix Chains in Phase-Separated Di-Block Copolymers Kobunshi Ronbunshu, **64** (2007) 286. (in Japanese).

K.Nitta, D.Kikuchi, T.Miyahara, K.Takegahara, H.Sugawara and H.Sato
EXAFS Study of Filled Skutterudites $\text{PrOs}_4\text{Sb}_{12}$ and $\text{LaOs}_4\text{Sb}_{12}$
AIP Conf. Proc., **882** (2007) 265.

H.Uehara, A.Uehara, M.Kakiage, H.Takahashi, S.Murakami, T.Yamanobe and T.Komoto
Solid-State Characterization of Polyethylene Reactor Powders and their Structural Changes upon Annealing
Polymer, **48** (2007) 4547.

A.Itadani, M.Tanaka, T.Mori, M.Nagao, H.Kobayashi and Y.Kuroda
A New Strategy for the Improvement of the N_2 Adsorption Properties of Copper-Ion-Exchanged MFI-type Zeolite at Room Temperature
J. Phys. Chem. C, **111** (2007) 12011.

A.Itadani, M.Tanaka, Y.Kuroda and M.Nagao
New Insight into N_2 Adsorption and Ion-Exchange Features of CuMFI with Different Si/Al Ratios
New J. Chem., **31** (2007) 1681.

M.Tada, T.Taniike and Y.Iwasawa
Understanding of Novel Surface Events on a Supported Co^{2+} -Ensemble Catalyst Promoted by Gas-Phase Molecules: Increases in the Amount and Reactivity of Adsorbed NO by CO Undetectable at the Catalyst Surface
J. Phys. Chem. C, **111** (2007) 11663.

H.Takeno, N.Kikuchi, S.Kondo and T.Dobashi
Rheological and Structural Studies on Gelation of 12-Hydroxystearic Acid Solution
Trans. MRS-J., **32** (2007) 835.

S.Arima, T.Uejii, S.Ueno, A.Ogawa and K.Sato
Retardation of Crystallization-Induced Destabilization of PMF-in-Water Emulsion with Emulsifier Additives
Colloids and Surfaces B, **55** (2007) 98.

H.Okuda, I.Murase, S.Ochiai, Y.Yokoyama and K.Inoue
Anomalous SWAXS Analysis of Zr-Cu-Ni-Al Quaternary Metallic Glass Joints
Mater. Sci. Forum, **539-543** (2007) 2006.

K.Nomura, H.Eba, K.Sakurai, A.Rykov and T.Hasegawa
XAFS and CEMS Study of Dilute Magneto-Optical Semiconductor, Fe Doped TiO_2 Films
Thin Solid Films, **515** (2007) 8649.

L.Zhang, S.Ueno and K.Sato
Binary Phase Behavior of 1,3-Dipalmitoyl-2-oleoyl-*sn*-glycerol and 1,2-Dioleoyl-3-palmitoyl-*rac*-glycerol
J. Am. Oil Chem. Soc., **84** (2007) 219.

T.Akaki, T.Nakamura, T.Noguchi and A.Tsuchiyama
Multiple Formation of Chondrules in the Early Solar System: Chronology of a Compound Al-Rich Chondrule
Astrophysical J. Lett., **656** (2007) L29.

T.Ohki, M.Harada and T.Okada
Structural and Thermodynamic Aspects of Ionic Solvation in Concentrated Aqueous Poly(ethylene glycol)
J. Phys. Chem. B, **111** (2007) 7245.

A.Itadani, H.Sugiyama, M.Tanaka, T.Mori, M.Nagao and Y.Kuroda
New Information Related to the Adsorption Model of N_2 on CuMFI at Room Temperature
J. Phys. Chem. C, **111** (2007) 16701.

10A

T.Hanashima, N.Shimizu, K.Yamawaki and S.Sasaki
Calculation of X-Ray Magnetic Circular Dichroism for Sr-Substituted LaCoO_3 by Discrete-Variational Hartree-Fock-Slater Method
Jpn. J. Appl. Phys., **46** (2007) 988.

S.Ohsawa, M.Okube, T.Aki, S.Sakurai, N.Shimizu, K.Ohkubo, T.Toyoda, T.Mori and S.Sasaki
Resonant X-Ray Magnetic Scattering Study of $\text{BaFe}_{12}\text{O}_{19}$ and $\text{BaTiCoFe}_{10}\text{O}_{19}$
Am. Inst. Phys., Conf. Proc., **879** (2007) 1715.

Y.Inagaki, S.Suzuki, I.Kagomiya, K.Kakimoto, H.Ohsato, K.Sasaki, K.Kuroda and T.Shimada
Crystal Structure and Microwave Dielectric Properties of SrTiO_3 Doped LaAlO_3 Single Crystal Grown by FZ
J. Euro. Ceramic Soc., **27** (2007) 2861.

K.Komatsu, T.Kuribayashi, Y.Kudoh and H.Kagi
Crystal Structures of High-Pressure Phases in the Alumina-Water System: I. Single Crystal X-Ray Diffraction and Molecular Dynamics Simulation of $\eta\text{-Al}(\text{OH})_3$
Zeit. Kristallogr., **222** (2007) 1.

K.Komatsu, H.Kagi, T.Nagai, T.Kuribayashi, J.B.Parise and Y.Kudoh
Single Crystal X-Ray Diffraction Study of High-Pressure Phases of KHCO_3
Am. Mineral., **92** (2007) 1270.

10B

Y.Izumi, D.Masih, K.Aika and Y.Seida
Erratum to "Creation of Micro and Mesoporous Fe^{III} Materials Utilizing Organic Template Followed by Carboxylates Exchange for the Low Concentrations of Arsenic Removal" [Microporous and Mesoporous Materials 94 (2006) 243]
Micropor. Mesopor. Mater., **99** (2007) 355.

K.Nakai, Y.Oumi, H.Horie, T.Sano and H.Yoshitake
Bromine Addition and Successive Amine Substitution of Mesoporous Ethylenesilica: Reaction, Characterizations and Arsenate Adsorption
Microporous and Mesoporous Mater., **100** (2007) 328.

M.Harada and H.Einaga
Preparation of Pt/Rh Bimetallic Colloidal Particles in Polymer Solutions using Borohydride-Reduction
J. Colloid Interface Sci., **308** (2007) 568.

N.Ichikuni, H.Matsumoto, H.Haneishi, K.K.Bando and S.Shimazu
In-situ XAFS Characterization for Nitriding Process of Silica Supported Nb Catalysts under $\text{N}_2\text{-H}_2$ Gas
AIP Conf. Proc., **882** (2007) 639.

D.Miyamoto, N.Ichikuni and S.Shimazu
XAFS Study of the Photo-Active Site of Mo/MCM-41
AIP Conf. Proc., **882** (2007) 672.

Y.Iwama, N.Ichikuni, K.K.Bando and S.Shimazu
Effect of Co Addition for Carburizing Process of Ti-Oxide/ SiO_2 into TiC/SiO_2
Appl. Catal. A, **323** (2007) 104.

H.Yoshida, T.Nakajima, Y.Yazawa and T.Hattori
Support Effect on Methane Combustion over Palladium Catalysts
Appl. Catal. B, **71** (2007) 70.

T.Nasu, T.Usuki, Y.Onodera, M.Sakurai, B.He, W.Zhong, Z.Wei, S.Wei, W.Zhang and A.Inoue
EXAFS Study on Atomic Distribution Change during Tensile Deformation of Metallic Glass
Mater. Sci. Forum, **539-543** (2007) 1955.

T.Nasu, S.Takahashi, I.Ajiki, T.Usuki, Y.Onodera, M.Sakurai, Z.Wei, A.Inoue, B.He, W.Zhong, Z.Xie and S.Wei
Direct Observation of the Changes in Atomic Arrangement of $\text{Cu}_{50}\text{Zr}_{50}$ Metallic Glass during Tensile Deformation by EXAFS
J. Alloys and Compound, **434-435** (2007) 44.

S.Hamada, K.Ikeue and M.Machida
Catalytic $\text{NO-H}_2\text{-O}_2$ Reaction over Pt/Mg-Al-O Prepared from PtCl_6^{2-} and $\text{Pt}(\text{NO}_2)_4^{2-}$ -Exchanged Hydrotalcites
Appl. Catal. B, **71** (2007) 1.

Y.Izumi, K.Konishi, M.Tsukahara, D.M.Obaid and K.Aika
Selective Butanol Synthesis over Rhodium-Molybdenum Catalysts Supported in Ordered Mesoporous Silica
J. Phys. Chem. C, **111** (2007) 10073.

K.Shimizu, S.Komai, T.Kojima, S.Satokawa and A.Satsuma
Mechanism of Adsorptive Removal of *tert*-Butanethiol under Ambient Conditions with Silver Nitrate Supported on Silica and Silica-Alumina
J. Phys. Chem. C, **111** (2007) 3480.

D.Masih, Y.Izumi, K. Aika and Y.Seida
Optimization of an Iron Intercalated
Montmorillonite Preparation for the Removal of
Arsenic at Low Concentrations
Eng. Life Sci., **7** (2007) 52.

A.Itadani, M.Tanaka, T.Mori, M.Nagao,
H.Kobayashi and Y.Kuroda
A New Strategy for the Improvement of the N₂
Adsorption Properties of Copper-Ion-Exchanged
MFI-type Zeolite at Room Temperature
J. Phys. Chem. C, **111** (2007) 12011.

A.Itadani, M.Tanaka, Y.Kuroda and M.Nagao
New Insight into N₂ Adsorption and Ion-
Exchange Features of CuMFI with Different
Si/Al Ratios
New J. Chem., **31** (2007) 1681.

M.Tada, R.Coquet, J.Yoshida, M.Kinoshita and
Y.Iwasawa
Selective Formation of A Coordinatively
Unsaturated Metal Complex at a Surface:
A SiO₂-Immobilized, Three-Coordinate
Ruthenium Catalyst for Alkene Epoxidation
Angew. Chem. Int. Ed., **46** (2007) 7220.

M.Tada and Y.Iwasawa
Advanced Design of Catalytically Active
Reaction Space at Surfaces for Selective
Catalysis
Coord. Chem. Rev., **251** (2007) 2702.

H.Yoshida, T.Tsuruta, Y.Yazawa and T.Hattori
Support Effect on Oxidation Resistance of
Precious Metal Catalysts as Examined by N₂O
Decomposition
Appl. Catal. A, **325** (2007) 50.

K.Ishiji, T.Matsuda, H.Tokoro, T.Iwazumi,
K.Hashimoto and S.Ohkoshi
Observation of Phase Transition of Cesium
Manganese Hexacyanoferrates by X-Ray
Absorption Spectroscopy
J. Phys. Chem. Solid, **68** (2007) 2158.

M.Harada and H.Einaga
In Situ XAFS Studies of Au Particle Formation
by Photoreduction in Polymer Solutions
Langmuir, **23** (2007) 6536.

R.Niishiro, R.Konta, H.Kato, W.J.Chun,
K.Asakura and A.Kudo
Photocatalytic O₂ Evolution of Rhodium and
Antimony-Codoped Rutile-Type TiO₂ under
Visible Light Irradiation
J. Phys. Chem. C, **111** (2007) 17420.

S.Emura, Y.Arata, Y.Arachi, M.Nunogami and
A.Ohmura
Atomic Structure Analysis of Pd Nano-Cluster in
Nano-Composite Pd/ZrO₂ Absorbing
High Temperature Soc. Jpn., **33** (2007) 142. (*in
Japanese*).

Y.Arachi, S.Emura, A.Omura, M.Nunogaki,
T.Asai, S.Yamaura, A.Inoue and Y.Arata
Alternation of the Pd Lattice in Nano-
Sized-Pd/ZrO₂ Composite during Hydrogen
Absorption
AIP Conf. Proc., **882** (2007) 740.

S.Hamada, S.Hibarino, K.Ikeue and M.Machida
Preparation of Supported Pt-M Catalysts (M=Mo
and W) from Anion-Exchanged Hydrotalcites
and their Catalytic Activity for Low Temperature
NO-H₂-O₂ Reaction
Appl. Catal. B: Environ., **74** (2007) 197.

T.Kadono, T.Kubota, H.Chatani and Y.Okamoto
Structure of Molybdenum Sulfide Clusters
Encaged in Zeolites: Effect of Zeolite
Composition
Micropor. Mesopor. Mater., **101** (2007) 191.

10C

M.Adachi, F.Takazawa, N.Tomikawa, M.Tokita
and J.Watanabe
Magnetic Orientation of Microcylinders in
Liquid Crystalline Diblock Copolymer and
Clarification of its Orientation Mechanism
Polym. J., **39** (2007) 155.

Y.Izumi, A.Amano, T.Saito and Y.Jinbo
Solution Structure of Ca²⁺/Calmodulin
Complexed with a Lentivirus Lytic Peptide 1
Reveals a Novel Mode of Molecular Recognition
J. Appl. Cryst., **40** (2007) s170.

R.K.Hirai and M.Hirai
Effect of Cations on the Structure of Sodium
Bis(2-Ethylhexyl)Sulfosuccinate Water-in-Oil
Microemulsion
J. Appl. Cryst., **40** (2007) s274.

T.Onai, M.Koizumi, H.Lu, K.Inoue and M.Hirai
Initial Process of Amyloid Formation of
Apomyoglobin and Effect of Glycosphingolipid
G_{M1}
J. Appl. Cryst., **40** (2007) s184.

M.Hirai, T.Onai, M.Koizumi, H.Hirai,
K.Kasahara, N.Suzuki, K.Yuyama and K.Inoue
Permeability of Water through a Raft Model
Membrane Clarified by Time-Resolved SANS
and SAXS
J. Appl. Cryst., **40** (2007) s159.

S.Shimizu, Y.Muroga, T.Hyono and K.Kurita
Small-Angle X-Ray Scattering Study on
Conformation of Poly(Sodium L-Glutamate) in
NaCl and NaF Aqueous Solutions
J. Appl. Cryst., **40** (2007) s553.

Y.Watanabe and Y.Inoko
Characterization of the Molecular Assembly of a
Hydrophobic Integral Membrane Protein under
Amphiphilic Conditions
Rep. Nat'l. Food Res. Inst., **71** (2007) 33. (*in
Japanese*).

Y.Watanabe and Y.Inoko
Small-Angle Light and X-Ray Scattering
Measurements of a Protein-Oligosaccharides
Complex Mucin in Solution
J. Appl. Cryst., **40** (2007) s209.

M.Kikuchi, T.Mihara, Y.Jinbo, Y.Izumi, K.Nagai
and S.Kawaguchi
Characterization of Rodlike Poly(*n*-Hexyl
Isocyanate) Macromonomers and their
Polymacromonomers by Light Scattering,
SXS, Intrinsic Viscosity, and Scanning Force
Microscopy
Polymer J., **39** (2007) 330.

S.Kawaguchi, T.Mihara, M.Kikuchi, L.T.N.Lien
and K.Nagai
Synthesis of Methacrylate-Ended Poly(*n*-hexyl
isocyanate) Rodlike Macromonomers and their
Radical Copolymerization Behavior
Macromolecules, **40** (2007) 950.

S.Noijima, K.Ito, and H.Ikeda
Composition Dependence of Crystallized
Lamellar Morphology Formed in Crystalline-
Crystalline Diblock Copolymers
Polymer, **48** (2007) 3607.

A.Kaito, M.Shimomura, M.Akaba and S.Noijima
Lamellar Structural Changes in Miscible
Crystalline Polymer Blends During Melting
and Crystallization Processes, as Studied by
Real-Time Small Angle X-Ray Scattering
Measurements
J. Polymer Science, **45** (2007) 1959.

K.Okada, K.Watanabe, I.Wataoka, A.Toda,
S.Sasaki, K.Inoue and M.Hikosaka
Size Distribution and Shape of Nano-Nucleus
of Polyethylene Simultaneously Determined by
SAXS
Polymer, **48** (2007) 382.

K.Okada, K.Watanabe, A.Toda, S.Sasaki,
K.Inoue and M.Hikosaka
Supercooling (ΔT) Dependence of Nano-
Nucleation of PE by SAXS and Proposal of a
New Nucleation Theory
Polymer, **48** (2007) 1116.

M.Inoue, T.Shiba, K.Ihara, Y.Yamada, S.Hirano,
H.Kamikubo, M.Kataoka, M.Kawasaki, R.Kato,
K.Nakayama and S.Wakatsuki
Molecular Basis for Autoregulatory Interaction
Between GAE Domain and Hinge Region of
GGA1
Traffic, **8** (2007) 904.

G.Matsuba, K.Nishida and T.Kanaya
The Effects of Ultra-High Molecular Weight
Components under Shear Flow
Kobunshi Ronbunshu, **64** (2007) 419. (*in
Japanese*).

S.Noijima, T.Kiji and Y.Ohguma
Characteristic Melting Behavior of Double
Crystalline Poly(ϵ -caprolactone)-*block*-
polyethylene Copolymers
Macromolecules, **40** (2007) 7566.

T.Mitsui, M.Sugiyama, H.Orihara, Y.-H.Na,
Y.Soejima, K.Hara, T.Sato, K.Ito, K.Mori and
T.Fukunaga
Effect of Metal Ion Absorption on Structure and
Electric Conductivity of Nafion
Trans. Mater. Res. Soc. Jpn., **32(3)** (2007) 827.

M.Sugiyama, T.Mitsui, T.Sato, Y.Akai, Y.Soejima, H.Orihara, Y.-H.Na, K.Ito, K.Mori and T.Fukunaga
Structural Analysis of Polyelectrolyte Film Absorbing Metal Ion by SAXS Utilizing with X-Ray Anomalous Dispersion Effect
J. Phys. Chem. B, **111** (2007) 8663.

K.Hara, T.Tanigawa, K.Yanagihara, A.Nishida and S.Yoshioka
Effect of Organic-Solvent Treatment on Swelling of Poly(acrylamide-co-sodiumacrylate) Gel
Trans. Mat. Res. Soc. Jpn., **32** (2007) 799.

N.Matsushima, N.Hayashi, N.Watanabe, Y.Jinbo and Y.Izumi
Binding of Trifluoperazine to Apocalmodulin Revealed by a Combination of Small-Angle X-Ray Scattering and Nuclear Magnetic Resonance
J. Appl. Cryst., **40** (2007) s179.

T.Yamada, J.Li, C.Koyanagi, T.Iyoda and H.Yoshida
Effect of Lithium Trifluoromethanesulfonate on the Phase Diagram of a Liquid-Crystalline Amphiphilic Diblock Copolymer
J. Appl. Cryst., **40** (2007) s585.

T.Yamada, S.A.E.Boyer, T.Iyoda, H.Yoshida and J.-P.E.Grolier
Isotropic Transition of Amphiphilic Side-Chain Type Liquid Crystalline Di-Block Copolymers
Effects of Nitrogen Pressure
J. Thermal Analysis and Calorimetry, **89** (2007) 9.

S.A.E.Boyer, J.-P.E.Grolier, H.Yoshida and T.Iyoda
Effect of Interface on Thermodynamic Behaviour of Liquid Crystalline Type Amphiphilic Di-Block Copolymers
J. Polym. Sci., B: Polym. Phys., **45** (2007) 1354.

T.Yamada, S.A.E.Boyer, T.Iyoda, H.Yoshida and J.-P.E.Grolier
Effects of CO₂ Pressure on Isotropic Transition of Amphiphilic Side-Chain Type Liquid Crystalline Di-Block Copolymers
J. Thermal Analysis and Calorimetry, **89** (2007) 717.

T.Kanaya, G.Matsuba and K.Nishida
Formation of Shish-Kebab Structures in Ultra-High Molecular Weight Polyethylene/Polyethylene Composites under Shear Flow
Polyolefin Composites, D. Nwabunma and T. Kyu Ed., (2007) 552.

Y.Yuguchi
Structure of Molecular Assembly in Polysaccharide Gels
Sen'i Gakkaishi, **63** (2007) 184. (*in Japanese*).

11A

J.Miyawaki, D.Matsumura, H.Abe, T.Otsuki, E.Sakai, K.Amemiya and T.Ohta
Spin Reorientation Transition in Ultrathin Co Films on Ru(0001) Induced by Ru Capping
AIP Conf. Proc., **882** (2007) 505.

H.Abe, K.Amemiya, D.Matsumura, T.Ohtsuki, E.Sakai, T.Yokoyama and T.Ohta
Depth-Resolved XMCD Application to Fe/Ni/Cu(001) Films
AIP Conf. Proc., **882** (2007) 384.

W.Yan, Z.Sun, Q.Liu, Z.Li, T.Shi, F.Wang, Z.Qi, G.Zhang, S.Weil, H.Zhang and Z.Chen
Structures and Magnetic Properties of (Mn, N)-Codoped ZnO Thin Films
Appl. Phys. Lett., **90** (2007) 242509.

Md.A.Mannan, M.Nagano, N.Hirao and Y.Baba
Characterization of Hexagonal Boron Carbonitride (h-BCN) Films Prepared by RF Plasma Enhanced CVD
Proc. the 24th International Japan-Korea Seminar on Ceramics, (2007) 289.

T.Saito, T.Katayama, T.Ishikawa, M.Yamamoto, D.Asakura and T.Koide
X-Ray Absorption Spectroscopy and X-Ray Magnetic Circular Dichroism of Epitaxially Grown Heusler Alloy Co₂MnSi Ultrathin Films Facing a MgO Barrier
Appl. Phys. Lett., **91** (2007) 262502.

M.A.Mannan, M.Nagano, K.Shigezumi, T.Kida, N.Hirao and Y.Baba
Characterization of Boron Carbonitride (BCN) Thin Films Deposited by Radiofrequency and Microwave Plasma Enhanced Chemical Vapor Deposition
Am. J. Applied Sci., **5** (2007) 736.

11B

S.Matsumoto, H.Ishii, T.Tanabe and J.Kawai
Chemical State Analysis of Fine Particles using XAFS
Tetsu-to-Hagane, **93** (2007) 62. (*in Japanese*).

T.Naito, H.Sugawara, T.Inabe, T.Miyamoto, H.Niimi and K.Asakura,
Photochemical Transformation of Molecular Crystals into Device
Special Publication - Royal Society of Chemistry, **306** (2007)

M.Kato, A.Nohtomi, Y.Morishita, T.Kurosawa, N.Arai, I.H.Suzuki and N.Saito
Development of the Soft X-Ray Intensity Measurement with a Cryogenic Radiometer
AIP Conf. Proc., **879** (2007) 1129.

T.Miyamoto, H.Niimi, W.-J.Chun, Y.Kitajima, H.Sugawara, T.Inabe, T.Naito and K.Asakura
Chemical States of Ag in Ag(DMe-DCNQI)₂ Photoproducts and a Proposal for its Photoinduced Conductivity Change Mechanism
Chem. Lett., **36** (2007) 1008.

T.Naito, H.Sugawara, T.Inabe, Y.Kitajima, T.Miyamoto, H.Niimi and K.Asakura
Uv-vis Induced Vitrification of A Molecular Crystal
Adv. Func. Mater., **17** (2007) 1663.

M.Takaoka
Investigation on Formation Process of Dioxins using XAFS
J. Jpn. Soc. Synchrotron Rad. Res., **20** (2007) 180. (*in Japanese*).

F.Zhu, M.Takaoka, K.Oshita, T.Matsumoto, N.Takeda, H.Tsuno and S.Morisawa
The Study on Chemical Form of Chloride in Raw Fly Ash
The 13th Seminar of JSPS-MOE Core University Program on Urban Environment, (2007) 427.

E.Kobayashi, J.Seo, A.Nambu and K.Mase
Development of a Miniature Double-Pass Cylindrical Mirror Electron Energy Analyzer (DPCMA), and Its Application to Auger Photoelectron Coincidence Spectroscopy (APECS)
Surf. Sci., **601** (2007) 3589.

T.Tsutsumi, T.Miyamoto, H.Niimi, Y.Kitajima, Y.Sakai, M.Kato, T.Naito and K.Asakura,
Energy-Filtered X-Ray Photoemission Electron Microscopy and its Applications to Surface and Organic Materials
Solid State Electronics, **51** (2007) 1360.

11C

K.Ozawa, T.Sato, Y.Oba and K.Edamoto
Electronic Structure of Cu on ZnO(10 $\bar{1}$ 0): Angle-Resolved Photoemission Spectroscopy Study
J. Phys. Chem. C, **111** (2007) 4256.

S.Toyoshima, K.Kuwabara, T.Sakurai, T.Taima, K.Saito, H.Kato and K.Akimoto
Electronic Structure of Bathocuproine on Metal Studied by Ultraviolet Photoemission Spectroscopy
Jpn. J. Appl. Phys., **46** (2007) 2692.

M.Yoshikawa, Y.Kubota, T.Kobayashi, K.Matama, A.Itakura, M.Hirata and T.Cho
Plasma Spectroscopy in the Tandem Mirror GAMMA 10
Trans. Fusion Sci. Technol., **51** (2007) 75.

11D

F.Hirose, M.Nagato, Y.Kinoshita, S.Nagase, Y.Narita and M.Suemitsu
Initial Oxidation of HF-Acid Treated Si(100) Surfaces under Air Exposure Studied by Synchrotron Radiation X-Ray Photoelectron Spectroscopy
Surf. Sci., **601** (2007) 2302.

T.Saitoh, D.Ishii, A.Hachimura, M.Hirose, T.S.Naing, Y.Kobayashi, K.Asai, M.Nakatake, M.Higashiguchi, K.Shimada, H.Namatame and M.Taniguchi
Electronic Structure of La_{1-x}Pr_xCoO₃ and NdCoO₃ Studied by Photoemission Spectroscopy
J. Magn. Magn. Mater., **310** (2007) 981.

12A

M.Yoshikawa, Y.Kubota, T.Kobayashi, K.Matama, A.Itakura, M.Hirata and T.Cho
Plasma Spectroscopy in the Tandem Mirror GAMMA 10
Trans. Fusion Sci. Technol., **51** (2007) 75.

12C

- Y.Izumi, D.Masih, K.Aika and Y.Seida
Erratum to "Creation of Micro and Mesoporous Fe^{III} Materials Utilizing Organic Template Followed by Carboxylates Exchange for the Low Concentrations of Arsenic Removal" [Microporous and Mesoporous Materials 94 (2006) 243]
Micropor. Mesopor. Mater., **99** (2007) 355.
- K.Fukuda, Y.Ebina, T.Shibata, T.Aizawa, I.Nakai and T.Sasaki
Unusual Crystallization Behaviors of Anatase Nanocrystallites from a Molecularly Thin Titania Nanosheet and its Stacked Forms: Increase in Nucleation Temperature and Oriented Growth
J. Am. Chem. Soc., **129** (2007) 202.
- T.Nobukawa, K.Sugawara, K.Okumura, K.Tomishige and K.Kunimori
Role of Active Oxygen Transients in Selective Catalytic Reduction of N₂O with CH₄ over Fe-Zeolite Catalysts
Appl. Catal. B, **70** (2007) 342.
- Y.Takahashi, A.Manceau, N.Geoffroy, M.A.Marcus and A.Usui
Chemical and Structural Control of the Partitioning of Co, Ce, and Pb in Marine Ferromanganese Oxides
Geochim. Cosmochim. Acta, **71** (2007) 984.
- H.Ofuchi, W.Wang, F.Takano and H.Akinaga
Fluorescence EXAFS Analysis of SiC:Mn Films Synthesized on SiC Substrates
AIP Conf. Proc., **882** (2007) 443.
- H.Ofuchi, N.Ozaki, N.Nishizawa, H.Kinjyo, S.Kuroda and K.Takita
Fluorescence XAFS Study on Local Structure around Cr Atoms Doped in ZnTe
AIP Conf. Proc., **882** (2007) 517.
- W.Wang, F.Takano, H.Ofuchi and H.Akinaga
Magnetic Properties of Transparent SiC:Mn Films Synthesized on SiC Substrates
J. Magn. Magn. Mat., **310** (2007) 2141.
- Y.Iwama, N.Ichikuni, K.K.Bando and S.Shimazu
Effect of Co Addition for Carburizing Process of Ti-Oxide/SiO₂ into TiC/SiO₂
Appl. Catal. A, **323** (2007) 104.
- W.Wang, F.Takano, H.Akinaga and H.Ofuchi
Structural, Magnetic, and Magnetotransport Properties of Mn-Si Films Synthesized on a 4H-SiC(0001) wafer
Phys. Rev. B, **75** (2007) 165323.
- S.Tanaka, M.Tada and Y.Iwasawa
Enantioselectivity Promotion by Achiral Surface Functionalization on SiO₂-Supported Cu-Bis(oxazoline) Catalysts for Asymmetric Diels-Alder Reactions
J. Catal., **245** (2007) 173.
- M.Tada and Y.Iwasawa
Design of Novel Re Catalyst for Direct Phenol Synthesis and Characterization of its Catalytically Active Structure
J. Jpn. Soc. Synchrotron Rad. Res., **20** (2007) 99. (*in Japanese*).
- M.Tada, S.Murata, T.Asaoka, K.Hiroshima, K.Okumura, H.Tanida, T.Uruga, Y.Inada, M.Nomura, H.Nakanishi, S.Matsumoto and Y.Iwasawa
In-Situ Time-Resolved XAFS Study on Power-on/off Processes of Pt/C Cathode in Fuel Cell
Shokubai, **49** (2007) 93. (*in Japanese*).
- H.Ikemoto, T.Miyana, S.Yoshida and J.Sogoh
EXAFS Study of Semimetal-Semiconductor Transition of Bismuth Clusters
AIP Conf. Proc., **882** (2007) 437.
- S.Sakai, A.Yoshiasa, H.Aarima, M.Okube, C.Numako and T.Sato
XAFS Study of As in K-T Boundary Clay
AIP Conf. Proc., **882** (2007) 274.
- T.Hashimoto, A.Yoshiasa, M.Sugahara, M.Okube, H.Okudera and A.Nakatsuka
Temperature Dependence of XANES Spectra for ATiO₃, A₂TiO₄ and TiO₂ Compounds with Structural Phase Transitions
AIP Conf. Proc., **882** (2007) 428.
- M.Okube, A.Yoshiasa, T.Matsumoto, E.Ito and Y.Terada
Local Structure Analysis around Kr in Minerals by XAFS
AIP Conf. Proc., **882** (2007) 296.
- T.Nasu, T.Usuki, Y.Onodera, M.Sakurai, B.He, W.Zhong, Z.We, S.We, W.Zhang and A.Inoue
EXAFS Study on Atomic Distribution Change during Tensile Deformation of Metallic Glass
Mater. Sci. Forum, **539-543** (2007) 1955.
- T.Nasu, S.Takahashi, I.Ajiki, T.Usuki, Y.Onodera, M.Sakurai, Z.We, A.Inoue, B.He, W.Zhong, Z.Xie and S.We
Direct Observation of the Changes in Atomic Arrangement of Cu₅₀Zr₅₀ Metallic Glass during Tensile Deformation by EXAFS
J. Alloys and Compound, **434-435** (2007) 44.
- D.Masih, H.Yoshitake and Y.Izumi
Photo-Oxidation of Ethanol on Mesoporous Vanadium-Titanium Oxide Catalysts and the Relation to Vanadium(IV) and (V) Sites
Appl. Catal. A, **325** (2007) 276.
- Y.Yamashita, Y.Takahashi, H.Haba, S.Enomoto and H.Shimizu
Comparison of Reductive Accumulation of Re and Os in Seawater-Sediment Systems
Geochimica et Cosmochimica Acta, **71** (2007) 3458.
- K.Kubo, K.Kanai, J.Okabayashi, M.Oshima and H.Ofuchi
Formation and Properties of MnAs Magnetic Nanoscaled Dots on Sulfur-Passivated Semiconductor Substrates
J. Cryst. Growth, **301-302** (2007) 619.
- W.Wang, F.Takano, H.Ofuchi and H.Akinaga
Epitaxial Growth of bcc Mn Films on 4H-SiC(0001) by Molecular Beam Epitaxy
J. Cryst. Growth, **301-302** (2007) 607.
- M.Matsuura, M.Sakurai, W.Zhang and A.Inoue
Local Structures around Zr, Ni, and Cu for the Zr₆₇Cu₃₃ and Zr₆₇Ni₃₃ Metallic Glasses
Mater. Sci. Forum, **539-543** (2007) 1959.
- M.Matsuura, K.Konno, K.Asada, M.Sakurai, W.Zhang and A.Inoue
Embrittlement and Local Structures for the Cu-, Ni- and Zr-Based Metallic Glasses
Materials Science and Engineering A, **449-451** (2007) 535.
- K.Nitta, D.Kikuchi, T.Miyana, K.Takegahara, H.Sugawara and H.Sato
EXAFS Study of Filled Skutterudites PrOs₄Sb₁₂ and LaOs₄Sb₁₂
AIP Conf. Proc., **882** (2007) 265.
- M.Tada, R.Bal, T.Sasaki, Y.Uemura, Y.Inada, S.Tanaka, M.Nomura, and Y.Iwasawa
A Novel Re-Cluster/HZSM-5 Catalyst for Highly Selective Phenol Synthesis from Benzene and O₂: Performance and Reaction Mechanism
J. Phys. Chem. C, **111** (2007) 10095.
- M.Tanimizu, Y.Takahashi and M.Nomura
Spectroscopic Study on the Anion Exchange Behavior of Cu Chloro-Complexes in HCl Solutions and its Implication to Cu Isotopic Fractionation
Geochem. J., **41** (2007) 291.
- D.Masih, Y.Izumi, K. Aika and Y.Seida
Optimization of an Iron Intercalated Montmorillonite Preparation for the Removal of Arsenic at Low Concentrations
Eng. Life Sci., **7** (2007) 52.
- M.Tada, Y.Uemura, T.Sasaki, R.Bal, Y.Inada, M.Nomura and Y.Iwasawa
Reaction Mechanism of Direct Phenol Synthesis from Benzene and O₂ on a HZSM-5-Supported N-Interstitial Re-Cluster Catalyst
Shokubai, **49** (2007) 406. (*in Japanese*).
- M.Tada, T.Taniike and Y.Iwasawa
Understanding of Novel Surface Events on a Supported Co²⁺-Ensemble Catalyst Promoted by Gas-Phase Molecules: Increases in the Amount and Reactivity of Adsorbed NO by CO Undetectable at the Catalyst Surface
J. Phys. Chem. C, **111** (2007) 11663.
- M.Tada and Y.Iwasawa
Advanced Design of Catalytically Active Reaction Space at Surfaces for Selective Catalysis
Coord. Chem. Rev., **251** (2007) 2702.
- A.Ikeda, T.Yaita, Y.Okamoto, H.Shiwaku, S.Suzuki, T.Suzuki and Y.Fujii
Extended X-Ray Absorption Fine Structure Investigation of Adsorption and Separation Phenomena of Metal Ions in Organic Resin
Anal. Chem., **79** (2007) 8016.
- Y.Takahashi, T.Uruga, K.Suzuki, H.Tanida, Y.Terada and K.H.Hattori
An Atomic Level Study of Rhenium and Radiogenic Osmium in Molybdenite
Geochimica et Cosmochimica Acta, **71** (2007) 5180.

H.Ikemoto, T.Miyanaga, T.Kiuchi
Phase Transitions of Bismuth Clusters
J. Non-Cryst. Solids, **353** (2007) 3394.

M.Kuriyama, H.Tanaka, S.Ito, T.Kubota,
T.Miyao, S.Naito, K.Tomishige and K.Kunimori
Promoting Mechanism of Potassium in
Preferential CO Oxidation on Pt/Al₂O₃
J. Catal., **252** (2007) 39.

W.Wang, F.Takano, M.Takenaka, H.Ofuchi and
H.Akinaga
Exchange Bias Effect in Fe Films Deposited on
Si(100) Substrates
Phys. Stat. Sol. (c), **4** (2007) 4352.

M.Harada and H.Einaga
In Situ XAFS Studies of Au Particle Formation
by Photoreduction in Polymer Solutions
Langmuir, **23** (2007) 6536.

R.Ma, K.Takada, K.Fukuda, N.Iyi, Y.Bando and
T.Sasaki
Topochemical Synthesis of Monometallic (Co²⁺-
Co³⁺) Layered Double Hydroxide and its
Exfoliation into Positively Charged Co(OH)₂
Nanosheets
Angew. Chem. Int. Ed., **47** (2007) 86.

M.Tada, R.Bal, X.Mu, R.Coquet, S.Namba and
Y.Iwasawa
Low-Temperature PROX (Preferential
Oxidation) on Novel CeO₂-Supported Cu-
Cluster Catalysts under Fuel-Cell Operating
Conditions
Chem. Commun., (2007) 4689.

T.Yamamoto, A.Suzuki, Y.Nagai, T.Tanabe,
F.Dong, Y.Inada, M.Nomura, M.Tada and
Y.Iwasawa
Origin and Dynamics of Oxygen Storage/Release
in a Pt/Ordered CeO₂-ZrO₂ Catalyst Studied by
Time-Resolved XAFS Analysis
Angew. Chem. Int. Ed., **46** (2007) 9253.

I.Nakai, H.Tanaka, A.Kitabatake, J.Fukuoka,
S.Yamada and N.Ohnishi
Cu K Edge X-Ray Magnetic Circular Dichroism
of Amorphous Gd₆₈Cu₃₂
J. Magn. Magn. Mater., **310** (2007) 1868.

T.Kadono, T.Kubota, H.Chatani and Y.Okamoto
Structure of Molybdenum Sulfide Clusters
Encaged in Zeolites: Effect of Zeolite
Composition
Micropor. Mesopor. Mater., **101** (2007) 191.

13A

S.Ono, Y.Ohishi and T.Kikegawa
High-Pressure Study of Rhombohedral Iron
Oxide, FeO, at Pressures between 41 and 142
GPa
J. Phys.: Condens. Matter, **19** (2007) 036205.

S.Ono, T.Kikegawa and Y.Ohishi
Equation of State of the High-Pressure
Polymorph of FeSi to 67 GPa
Eur. J. Mineral., **19** (2007) 183.

S.Ono
New High-Pressure Phases in BaCO₃
Phys. Chem. Minerals, **34** (2007) 215.

S.Ono
High-Pressure Phase Transformation in MnCO₃:
A Synchrotron XRD Study
Mineralogical Magazine, **1** (2007) 105.

S.Ono, T.Kikegawa and Y.Ohishi
High-Pressure Transition of CaCO₃
Am. Mineral., **92** (2007) 1246.

D.Nishio-Hamane, K.Fujino, Y.Seto and T.Nagai
Effect of the Incorporation of FeAlO₃ into
MgSiO₃ Perovskite on the Post-Perovskite
Transition
Geophysical Res. Lett., **34** (2007) L12307.

D.Nishio-Hamane, Y.Seto, T.Nagai and K.Fujino
Ferric Iron and Aluminum Partitioning
between MgSiO₃- and CaSiO₃-Perovskite
under Oxidizing Conditions
J. Mineralogical and Petrological Sciences, **102**
(2007)

13B

W.Yan, Z.Li, Z.Sun, Z.Pan, S.Weï and
A.V.Kolobov
Growth of Embedded Ge Nanocrystals on
Different Substrates
J. Appl. Phys., **101** (2007) 104318.

13B1

H.Oyanagi, A.Tsukada, M.Naito and N.L.Saini
Local Structure of Superconducting
(La,Sr)₂CuO₄ under Strain: Microscopic
Mechanism of Strain-Induced T_c Variation
Phys. Rev. B, **75** (2007) 024511.

H.Oyanagi
Unconventional XAS Applications in Physical
Science using Pixel Array X-Ray Detector
AIP Conf. Proc., **902** (2007) 99.

C.J.Zhang, H.Oyanagi, B.H.Kim, Y.W.Park and
Y.H.Zhang
Local Lattice Structure in Mn-Doped
La_{2-x}Sr_xCuO₄ Studied by Cu and Mn K-edge
XAFS
Phys. Rev. B, **75** (2007) 174504.

S.Weï, W.Yan, Z.Sun, Q.Liu, W.Zhong,
X.Zhang, H.Oyanagi and Z.Wu
Mn Occupations in Ga_{1-x}Mn_xN Dilute Magnetic
Semiconductors Probed by X-Ray Absorption
Near-Edge Structure Spectroscopy
AIP Conf. Proc., **882** (2007) 378.

Z.Sun, W.Yan, H.Oyanagi, Z.Pan and S.Weï
Local Lattice Distortion of Ge Impurity in
Si(001): Multiple-Scattering EXAFS Study
AIP Conf. Proc., **882** (2007) 547.

Z.Pan, H.Oyanagi, Z.Sun, Z.Xie, J.Fan and
S.Weï
Ge Migration Effect of Si/Ge_n/Si(100)
Heterostructure Films Probed by Grazing
Incidence Fluorescence X-Ray Absorption Fine
Structure
AIP Conf. Proc., **882** (2007) 559.

H.Oyanagi, A.Tsukada, M.Naito, N.L.Saini and
Z.Changjin
Fluorescence XAS using Ge PAD: Application
to High-Temperature Superconducting Thin Film
Single Crystals
AIP Conf. Proc., **882** (2007) 899.

13C

E.Kobayashi, K.K. Okudaira and K.Mase
Simultaneous Measurements of Mass and
Kinetic-Energy Distribution of Ions using a
Miniature Cylindrical Mirror Analyzer (CMA)
and Synchrotron Radiation under the Single-
Bunch Mode Operation – Application for H⁺
Desorption Induced by Core-Level Excitations
of Condensed Ammonia –
J. Vac. Soc. Jpn., **50** (2007) 530. (in Japanese).

N.Fujita and K.Mase
Miniature Electron / Ion / Soft-X-Ray Detector
Mounted on a Conflat Flange with an Outer
Diameter of 70 mm
J. Vac. Soc. Jpn., **50** (2007) 583. (in Japanese).

X.T.Hao, T.Hosokai, N.Mitsuo, S.Kera,
K.K.Okudaira, K.Mase and N.Ueno
Control of the Interchain π - π Interaction and
Electron Density Distribution at the Surface of
Conjugated Poly(3-hexylthiophene) Thin Films
J. Phys. Chem. B, **111** (2007) 10365.

14A

Y.Kanai, M.Ueno, J.Kataoka, M.Arimoto,
N.Kawai, K.Yamamoto, T.Mizuno, Y.Fukazawa,
M.Kiss, T.Ylisen, C.M.Bettolo, P.Carlson,
W.Klamra, M.Pearce, P.Chen, B.Craig,
T.Kamae, G.Madejski, J.S.T.Ng, R.Rogers,
H.Tajima, T.S.Thurston, Y.Saito, T.Takahashi,
S.Gunji, C.-I.Bjornsson, S.Larsson, F.Ryde,
G.Bogaert and S.Kishimoto
Beam Test of a Prototype Phoswich Detector
Assembly for the PoGOLite Astronomical Soft
Gamma-Ray Polarimeter
Nucl. Instrum. Meth. Phys. Res. A, **570** (2007)
61.

S.Kishimoto, X.-W.Zhang and Y.Yoda
Development of Si-APD Timing Detectors for
Nuclear Resonant Scattering using High-Energy
Synchrotron X-Rays
AIP Conf. Proc., **879** (2007) 1148.

N.Ishizawa, T.Suwa, K.Tateishi and J.R.Hetscher
Synchrotron X-Ray Study of Non-
Centrosymmetric Tb₃RuO₇ with Partial
Structural Disorder
Acta Cryst. C, **63** (2007) i43.

Y.Kishimoto, S.Gunji, Y.Ishigaki, M.Kanno,
H.Murayama, C.Ito, F.Tokanai, K.Suzuki,
H.Sakurai, T.Mihara, M.Kohama, M.Suzuki,
A.Hayato, K.Hayashida, N.Anabuki,
M.Morimoto, H.Tsunemi, Y.Saito, T.Yamagami
and S.Kishimoto
Basic Performance of PHENEX: A Polarimeter
for High ENERGY X Rays
IEEE Trans. Nucl. Sci., **54** (2007) 561.

F.Tokanai, H.Sakurai, S.Gunji, T.Sumiyoshi, H.Sugiyama, Y.Fujita, T.Atsumi, Y.Ohishi, T.Okada and S.Kishimoto
Evaluation of a Capillary Plate Gas Detector Filled with Ne+CF₄ and Ar+CF₄ Gas Mixtures
Nucl. Instrum. Meth. Phys. Res. A, **581** (2007) 236.

H.Takahashi, K.Nishi, S.Paes, H.Niko, K.Fujita, P.Siritiprussamee, M.Ohno, B.Shi, M.Nakazawa, H.Toyokawa, S.Kishimoto, T.Ino and M.Furusaka
A New Spiral MGSC
Nucl. Instrum. Meth. Phys. Res. A, **579** (2007) 75.

H.Niko, K.Fujita, H.Takahashi, P.Siritiprussamee, M.Nakazawa, H.Toyokawa, S.Kishimoto, T.Ino and M.Furusaka
Study on a Charge-Integrating Operation Mode of M-MSGC towards Very Fine-Pitch MSGC
Nucl. Instrum. Meth. Phys. Res. A, **579** (2007) 67.

H.Takahashi, P.Siritiprussamee, K.Fujita, H.Niko, M.Nakazawa, S.Kishimoto, T.Ino, M.Furusaka and H.Toyokawa
Ultra-Long Microstrip Gas Counter for Spallation Neutron Source Facilities
Nucl. Instrum. Meth. Phys. Res. A, **573** (2007) 175.

P.Siritiprussamee, K.Fujita, H.Takahashi, H.Niko, K.Nishi, H.Toyokawa, M.Furusaka, T.Ino, S.Kishimoto, H.M.Shimizu and M.Kanazawa
A New Fast Two-Stage GL Charge Division Method for a Very Long MSGC for Large-Area Radiation Imaging
Nucl. Instrum. Meth. Phys. Res. A, **580** (2007) 1119.

14B

K.Hirano, T.Miyoshi, N.Igarashi, T.Takeda, J.Wu, T.T.Lwin, M.Kubota, N.Egami, K.Tanioka, T.Kawai and S.Wakatsuki
X-Ray Phase Imaging of Biological Soft Tissue using a Direct-Sensing X-Ray HARP Tube Camera
Phys. Med. Biol., **52** (2007) 2545.

K.Mizuno, Y.Furuya, K.Hirano and H.Okamoto
Hydrogen Diffusion in Titanium-Hydride Observed by Diffraction-Enhanced X-Ray Imaging Method
Phys. Stat. Sol. (a), **204** (2007) 2734.

D.Shimao, H.Sugiyama, T.Kunisada, K.Hyodo, K.Mori and M.Ando
On Detailed Contrast of Biomedical Object in X-Ray Dark-Field Imaging
AIP Conf. Proc., **879** (2007) 1960.

D.Shimao, T.Kunisada, H.Sugiyama and M.Ando
Refraction-Enhanced Tomosynthesis of a Finger Joint by X-Ray Dark-Field Imaging
Jpn. J. Appl. Phys., **46** (2007) L608.

K.Mizuno, Y.Furuya, K.Hirano and H.Okamoto
New Determination Method of Hydrogen Diffusivity in Titanium-Hydrides by Means of Diffraction-Enhanced X-Ray Imaging Method
Transaction MRS Jpn., **32** (2007) 855.

14C1

J.Wu, T.Takeda, T.T.Lwin, Q.Huo, N.Sunaguchi, T.Murakami, S.Mouri, S.Nasukawa, T.Fukami, T.Yuasa, K.Hyodo, H.Hontani, M.Minami and T.Akatsuka
Validity of Fusion Imaging of Hamster Heart Obtained by Fluorescent and Phase-Contrast X-Ray CT with Synchrotron Radiation
AIP Conf. Proc., (2007) 1956.

S.Takeya, K.Honda, T.Kawamura, Y.Yamamoto, A.Yoneyama, Y.Hirai, K.Hyodo and T.Takeda
Imaging and Density Mapping of Tetrahydrofuran Clathrate Hydrates by Phase-Contrast X-Ray Computed Tomography
Appl. Phys. Lett., **90** (2007) 081920.

A.Yoneyama, T.Takeda, J.Wu, T.T.Lwin, K.Hyodo and Y.Hirai
Fast X-Ray Digital Imager for High-Speed Phase-Contrast X-Ray Imaging
Jpn. J. Appl. Phys., **46** (2007) 1205.

A.Yoneyama, K.Noda-Saita, Y.Shitaka, T.Takeda, K.Hyodo and Y.Hirai
A Novel Quantitative Analysis Method of β -Amyloid Plaques in Model Mice of Alzheimer's Disease using a Phase-Contrast X-Ray Imaging Technique
10th Inter. Conf. Alzheimer's Disease and Related Disorders, (2007) 495.

S.Takeya and A.Yoneyama
Non-Destructive Observation of Ice Core in Antarctica
Kensagijyutu, **12** (2007) 27. (*in Japanese*).

T.Takeda, J.Wu, T.T.Lwin, A.Yoneyama, K.Hyodo, Y.Matsuda and K.Kose
Interferometer-Based Phase-Contrast X-Ray Computed Tomography of Colon Cancer Specimens: Comparative Study with 4.74-T Magnetic Resonance Imaging and Optical Microscopy
J. Comput. Assist. Tomogr., **31** (2007) 214.

14C2

K.Tsuno, H.Terasaki, E.Ohtani, A.Suzuki, Y.Asahara, K.Nishida, T.Sakamaki, K.Funakoshi and T.Kikegawa
In situ Observation and Determination of Liquid Immiscibility in the Fe-O-S Melt at 3 GPa using a Synchrotron X-Ray Radiographic Technique
Geophysical Res. Lett., **34** (2007) L17303.

T.Narushima, T.Hattori, T.Kinoshita, A.Hinzmann and K.Tsujii
Pressure Dependence of the Structure of Liquid Sn up to 19.4 GPa
Phys. Rev. B, **76** (2007) 104204.

N.Nishiyama, T.Yagi, S.Ono, H.Gotou, T.Harada and T.Kikegawa
Effect of Incorporation of Iron and Aluminum on the Thermoelastic Properties of Magnesium Silicate Perovskite
Phys. Chem. Minerals, **34** (2007) 131.

15A

K.Wakabayashi, Y.Sugimoto, Y.Takezawa, Y.Ueno, S.Minakata, K.Oshima, T.Matsuo and T.Kobayashi
Structural Alterations of Thin Actin Filaments in Muscle Contraction by Synchrotron X-Ray Fiber Diffraction
Adv. Exp. Med. Biol., **592** (2007) 327.

K.Oshima, Y.Takezawa, Y.Sugimoto, T.Kobayashi, T.C.Irving and K.Wakabayashi
Axial Dispositions and Conformations of Myosin Crossbridges along Thick Filaments in Relaxed and Contracting States of Vertebrate Striated Muscles by X-Ray Fiber Diffraction
J. Mol. Biol., **367** (2007) 275.

B.Nandan, J.-Y.Hsu, A.Chiba, H.-L.Chen, C.-S.Liao, S.-A.Chen and H.Hasegawa
Highly Oriented Nanowires from the Hierarchical Self-Assembly in Supramolecular Complex of Polyaniline with ω -Methoxy Poly(ethylene oxide) Phosphates
Macromolecules, **40** (2007) 395.

H.Takahashi, T.Hayakawa, Y.Kawasaki, K.Ito, T.Fujisawa, M.Kodama and T.Kobayashi
Structural Characterization of N-Lignoceryl (C24:0) Sphingomyelin Bilayer Membranes: a Re-Evaluation
J. Appl. Cryst., **40** (2007) s312.

R.Kurita, Y.Shinohara, Y.Amemiya and H.Tanaka
Microscopic Structural Evolution during the Liquid-Liquid Transition in Triphenyl Phosphite
J. Phys.: Condens. Matter, **19** (2007) 152101.

J.Li, M.Shinjo, Y.Matsumura, M.Morita, D.Baker, M.Ikeguchi and H.Kihara
An α -Helical Burst in the src SH3 Folding Pathway
Biochemistry, **46** (2007) 5072.

A.A.Timchenko, V.M.Shiryayev, Y.Y.Fedorova, H.Kihara, K.Kimura, R.Willumeit, V.M.Garamus and O.M.Selivanova
Conformation of *Thermus thermophilus* Ribosomal Protein S1 in Solution at Different Ionic Strengths
Biophysics, **52** (2007) 162.

Y.Yamada, T.Yajima, S.Tsukamoto, K.Nakagawa, K.Fujiwara, H.Kihara and M.Ikeguchi
Chloride-Ion Concentration Dependence of Molecular Dimension in the Acid-Denatured State of Equine β -Lactoglobulin
J. Appl. Cryst., **40** (2007) s213.

T.Morita, Y.Tanaka, K.Ito, Y.Takahashi and K.Nishikawa
Apparatus for Simultaneous Measurement of X-Ray Absorption Factor Developed for Small-Angle X-Ray Scattering Beamline
J. Appl. Cryst., **40** (2007) 791.

G.Matsuba, K.Nishida and T.Kanaya
The Effects of Ultra-High Molecular Weight Components under Shear Flow
Kobunshi Ronbunshu, **64** (2007) 419. (*in Japanese*).

T.Kanaya, G.Matsuba and K.Nishida
Polymer Crystallization under Shear Flow – Formation Mechanism of Fiber Structure –
Sen'i Gakkaishi, **63** (2007) 58. (*in Japanese*).

H.Kobayashi, M.Shioya, T.Tanaka and T.Irisawa
Synchrotron Radiation Small-Angle X-Ray Scattering Study on Fracture Process of Carbon Nanotube/Poly(Ethylene Terephthalate) Composite Films
Compos. Sci. Technol., **67** (2007) 3209.

H.Kobayashi, M.Shioya, T.Tanaka, T.Irisawa, S.Sakurai and K.Yamamoto
A Comparative Study of Fracture Behavior between Carbon Black/Poly(Ethylene Terephthalate) and Multiwalled Carbon Nanotube/Poly(Ethylene Terephthalate) Composite Films
J. Appl. Polym. Sci., **106** (2007) 152.

M.Shioya
Analysis on Deformation and Fracture Process of Fibers and Films using Synchrotron Radiation Small-Angle Scattering
Seikei-Kakou, **19** (2007) 143. (*in Japanese*).

S.Arima, T.Ueji, S.Ueno, A.Ogawa and K.Sato
Retardation of Crystallization-Induced Destabilization of PMF-in-Water Emulsion with Emulsifier Additives
Colloids and Surfaces B, **55** (2007) 98.

H.Okuda, I.Murase, S.Ochiai, Y.Yokoyama and K.Inoue
Anomalous SWAXS Analysis of Zr-Cu-Ni-Al Quaternary Metallic Glass Joints
Mater. Sci. Forum, **539-543** (2007) 2006.

N.Torikai, N.L.Yamada, D.Kawaguchi, A.Takano, Y.Matsushita, E.Watkins, J.P.Majewski and H.Okuda
In-Situ Reflectometry Observation on Structural Changes of Thin Self-Assembled Block Copolymer Films
J. Phys.: Conf. Ser., **83** (2007) 012028.

G.Matsuba, S.Sakamoto, Y.Ogino, K.Nishida and T.Kanaya
Crystallization of Polyethylene Blends under Shear Flow. Effects of Crystallization Temperature and Ultrahigh Molecular Weight Component
Macromolecules, **40** (2007) 7270.

T.Kanaya, G.Matsuba, Y.Ogino, N.Takahashi and K.Nishida
Quantum Beam Studies on Polymer Crystallization under Flow
Polymer J., **39** (2007) 1085.

K.Wakabayashi, Y.Sugimoto, Y.Takezawa, K.Oshima, T.Matsuo and Y.Ueno
Molecular Mechanics and Structural Changes of the Actin and Myosin Filaments in Muscle Contraction, Studied by Synchrotron X-Ray Fiber Diffraction and Solution Scattering
J. Jpn. Soc. Synchrotron Rad. Res., **20** (2007) 341. (*in Japanese*).

T.Kanaya, G.Matsuba and K.Nishida
Formation of Shish-Kebab Structures in Ultra-High Molecular Weight Polyethylene/Polyethylene Composites under Shear Flow
Polyolefin Composites, D. Nwabunma and T. Kyu Ed., (2007) 552.

L.Zhang, S.Ueno and K.Sato
Binary Phase Behavior of 1,3-Dipalmitoyl-2-oleoyl-*sn*-glycerol and 1,2-Dioleoyl-3-palmitoyl-*rac*-glycerol
J. Am. Oil Chem. Soc., **84** (2007) 219.

15B1

H.Koizumi, M.Shimizu, M.Tachibana and K.Kojima
Characterization of Dislocations in Orthorhombic Hen Egg-White Lysozyme Crystals by Synchrotron X-Ray Topography
Physica Status Solidi (a), **204** (2007) 2688.

H.Koizumi, M.Tachibana, K.Kojima and I.Yonenaga
Dislocation Structures in Tetragonal Hen Egg-White Lysozyme Crystals using Synchrotron White-Beam Topography
Physica B, **401-402** (2007) 691.

15B2

W.Voegeli, K.Akimoto, T.Urata, S.Nakatani, K.Sumitani, T.Takahashi, Y.Hisada, Y.Mitsuoka, S.Mukaiinakano, X.Zhang, H.Sugiyama and H.Kawata
Structure of the Oxidized 4H-SiC (0001)-3×3 Surface
Surf. Sci., **601** (2007) 1048.

K.Sumitani, K.Masuzawa, T.Hoshino, R.Yoshida, S.Nakatani, T.Takahashi, H.Tajiri, K.Akimoto, H.Sugiyama, X.W.Zhang and H.Kawata
Structural Study of Si(111)-6×1-Ag Surface using Surface X-Ray Diffraction
Surf. Sci., **601** (2007) 5195.

15C

K.Hirano, T.Miyoshi, N.Igarashi, T.Takeda, J.Wu, T.T.Lwin, M.Kubota, N.Egami, K.Tanioka, T.Kawai and S.Wakatsuki
X-Ray Phase Imaging of Biological Soft Tissue using a Direct-Sensing X-Ray HARP Tube Camera
Phys. Med. Biol., **52** (2007) 2545.

H.Katagiri, K.Ono, T.Tsuru, H.Matsumoto, M.Ueno, T.Nagayoshi, Y.Hyodo, H.Kubo, K.Miuchi and T.Tanimori
Development of Pixel-Readout Micro-Pixel Chamber for X-Ray Polarimetry
Jpn. J. Appl. Phys., **46** (2007) 3101.

Y.Ito, K.Akimoto, H.Yoshida, T.Emoto, D.Kobayashi and K.Hirose
High-k Gate Dielectric Films Studied by Extremely Asymmetric X-Ray Diffraction and X-Ray Photoelectron Spectroscopy
J. Physics: Conf. Ser., **83** (2007) 012011.

R.Negishi, T.Fukamachi, M.Yoshizawa, K.Hirano and T.Kawamura
Observation of Interference Fringes Due to Lattice Distortion by Resonant Scattering X-Ray Topography
Phys. Stat. Sol. (a), **204** (2007) 2694.

K.Mizuno, H.Okamoto, P.Prete and N.Lovergine
Characterization of ZnTe Homo-Epitaxial Layers by Means of Synchrotron X-Ray Topography
J. Optoelectronics and Advanced Materials, **9** (2007) 1273.

16A1

T.Arima, Y.Watanabe, K.Taniguchi, M.Watanabe and Y.Noda
Effect of Mn-Substitution on Magnetic and Structural Properties in FeCr₂O₄
J. Magn. Magn. Mater., **310** (2007) 807.

H.Eba and K.Sakurai
Observation of Transferring Elements by Quick X-Ray Fluorescence Imaging
Adv. X-Ray Chem. Anal., Jpn., **38** (2007) 331. (*in Japanese*).

H.Eba and K.Sakurai
Efficient Characterization of Combinatorial ZnGa₂O₄ using Quick X-Ray Fluorescence Imaging
Adv. X-Ray Chem. Anal., Jpn., **38** (2007) 121. (*in Japanese*).

old 16A2

Y.Wakabayashi, D.Bizen, H.Nakao, Y.Murakami, M.Nakamura, Y.Ogimoto, K.Miyano and H.Sawa
Orbital Ordered Structure of a Manganite Thin Film Observed by K-Edge Resonant X-Ray Scattering
AIP Conf. Proc., **879** (2007) 1711.

Y.Murakami, H.Nakao, T.Matsumura and K.Ohsumi
Mechanism of Resonant X-Ray Scattering to Observe the Orbital Ordering
J. Mag. Mag. Mater., **310** (2007) 723.

N.Tatami, Y.Ando, S.Nioka, H.Kira, M.Onodera, H.Nakao, K.Iwasa, Y.Murakami, T.Kakiuchi, Y.Wakabayashi, H.Sawa and S.Itoh
Orbital Ordering and the Dilute Effect in Copper Fluoride
J. Magn. Magn. Mater., **310** (2007) 787.

K.Ohwada, Y.Fujii, J.Muraoka, H.Nakao, Y.Murakami, Y.Noda, H.Ohsumi, N.Ikeda, T.Shobu, M.Isobe and Y.Ueda
Structural Relations between Two Ground States of NaV₂O₅ under High Pressure: A Synchrotron X-Ray Diffraction Study
Phys. Rev. B, **76** (2007) 094113.

T.Matsumura, D.Okuyama, S.Niitoka, H.Ishida, T.Satoh, Y.Murakami, H.Toyosaki, Y.Yamada, T.Fukumura and M.Kawasaki
X-Ray Anomalous Scattering of Diluted Magnetic Oxide Semiconductors: Possible Evidence of Lattice Deformation for High Temperature Ferromagnetism
Phys. Rev. B, **76** (2007) 115320.

old 16B

Y.Takayama, K.Shibasaki, N.Sasaki, Y.Nakayama, K.Nishihata, Y.Yoneda, T.Yoshida, S.Nakamura, H.Ishii, T.Miyahara, J.Okabayashi, K.Kanai, M.Oshima and S.Yamamoto
Second Harmonic Generation with the GaAs Thin Film in the Soft X-Ray Region
AIP Conf. Proc., **879** (2007) 698.

K.Amemiya, H.Abe, J.Miyawaki, E.O.Sako and T.Ohta
Design Concept for a High-Resolution Variable Included Angle Grazing Incidence Monochromator with a Varied Line Spacing Grating and a New Optics for Microfocusing
AIP Conf. Proc., **879** (2007) 463.

K.Amemiya, E.O.Sako, J.Miyawaki and H.Abe
Two-Step Kirkpatrick-Baez System: Compact Optics for X-Ray Microfocusing
Jpn. J. Appl. Phys., **46** (2007) 3640.

T.Kaneyasu, Y.Hikosaka, E.Shigemasa, F.Penent, P.Lablanquie, T.Aoto and K.Ito
State-Selective Cross Sections of Multiple Photoionization in Ne
Phys. Rev. A, **76** (2007) 012717.

K.Sato, M.Sugawara, T.Jinno, M.Toyoda, T.Hatano, A.Arai and M.Yanagihara
X-Ray Magnetic Circular Dichroism Studies for Fe/Si Interfaces using Standing Waves
J. Phys.: Conference Series, **83** (2007) 012012.

17A

N.Igarashi, N.Matsugaki, Y.Yamada, M.Hiraki, A.Koyama, K.Hiraki, T.Miyoshi and S.Wakatsuki
BL-17A, A New Protein Micro-Crystallography Beam Line of the Photon Factory
AIP Conf. Proc., **879** (2007) 812.

Y.Gaponov, N.Matsugaki, N.Honda, K.Sasajima, N.Igarashi, M.Hiraki, Y.Yamada and S.Wakatsuki
Development of Control Applications for High-Throughput Protein Crystallography Experiments
AIP Conf. Proc., **879** (2007) 1932.

M.Hiraki, S.Watanabe, Y.Yamada, N.Matsugaki, N.Igarashi, Y.Gaponov and S.Wakatsuki
Automated Sample Exchange Robots for the Structural Biology Beam Lines at the Photon Factory
AIP Conf. Proc., **879** (2007) 1924.

N.Matsugaki, Y.Yamada, N.Igarashi and S.Wakatsuki
Design and Construction of the High-Speed Network Connecting All the Protein Crystallography Beam Lines at the Photon Factory
AIP Conf. Proc., **879** (2007) 1936.

H.Yoshida, M.Yamada, T.Nishitani, G.Takada, K.Izumori and S.Kamitori
Purification, Crystallization, and Preliminary X-Ray Diffraction Studies of D-Tagatose 3-Epimerase from *Pseudomonas cichorii*
Acta Cryst. F, **63** (2007) 123.

J.Wada, R.Suzuki, S.Fushinobu, M.Kitaoka, T.Wakagi, H.Shoun, H.Ashida, H.Kumagai, T.Katayama and K.Yamamoto
Purification, Crystallization and Preliminary X-Ray Analysis of the Galacto-N-Biose-/Lacto-N-Biose I-Binding Protein (GL-BP) of the ABC Transporter from *Bifidobacterium longum* JCM1217
Acta Cryst. F, **63** (2007) 751.

H.Yoshida, M.Yamada, T.Nishitani, G.Takada, K.Izumori and S.Kamitori
Crystal Structures of D-Tagatose 3-Epimerase from *Pseudomonas cichorii* and its Complexes with D-Tagatose and D-Fructose
J. Mol. Biol., **374** (2007) 443.

M.Unno, T.Matsui and M.Ikeda-Saito
Structure and Catalytic Mechanism of Heme Oxygenase
Nat. Prod. Rep., **24** (2007) 553.

K.A.Henderson, V.A.Streltsov, A.M.Coley, O.Dolezal, P.J.Hudson, A.H.Batchelor, A.Gupta, H.Kim, V.J.Murphy, R.F.Anders, M.Foley and S.D.Nuttall
Structure of an IgNAR-AMA1 Complex: Targeting a Conserved Hydrophobic Cleft Broadens Malarial Enhances Strain Recognition
Structure, **15** (2007) 1452.

K.Inoue, Y.Ashikawa, Y.Usami, H.Noguchi, Z.Fujimoto, H.Yamane and H.Nojiri
Crystallization and Preliminary Crystallographic Analysis of the Ferredoxin Component of Carbazole 1,9a-Dioxygenase from *Nocardioidees aromaticivorans* IC177
Acta Cryst. F, **63** (2007) 855.

J.Y.Ha, H.K.Kim, D.J.Kim, K.H.Kim, S.J.Oh, H.H.Lee, H.J.Yoon, H.K.Song and S.W.Suh
The Recombination-Associated Protein RdgC Adopts a Novel Toroidal Architecture for DNA Binding
Nucleic Acids Research, **35** (2007) 2671.

H.H.Lee, J.Moon and S.W.Suh
Crystal Structure of the *Helicobacter pylori* Enoyl-Acyl Carrier Protein Reductase in Complex with Hydroxydiphenyl ether Compounds, Triclosan and Diclosan
Proteins, **69** (2007) 691.

H.H.Lee, Y.S.Kim, K.H.Kim, I.Heo, S.K.Kim, O.Kim, H.K.Kim, J.Y.Yoon, H.S.Kim, D.J.Kim, S.J.Lee, H.J.Yoon, S.J.Kim, B.G.Lee, H.K.Song, V.N.Kim, C.M.Park and S.W.Suh
Structural and Functional Insights into Dom34, a Key Component of No-Go mRNA Decay
Molecular Cell, **27** (2007) 938.

18A

D.Sekiba, Y.Yoshimoto, K.Nakatsuji, Y.Takagi, T.Iimori, S.Doi and F.Komori
Strain-Induced Change in Electronic Structure of Cu(100)
Phys. Rev. B, **75** (2007) 115404.

S.Hatta, C.Kato, N.Tsuboi, S.Takahashi, H.Okuyama, T.Aruga, A.Harasawa, T.Okuda and T.Kinoshita
Atomic and Electronic Structure of Ti/Ge(111)-(1×1): LEED and ARPES Measurements and First-Principles Calculations
Phys. Rev. B, **76** (2007) 075427.

Y.Nakayama, S.Yamazaki, H.Okino, T.Hirahara, I.Matsuda, S.Hasegawa and M.Ichikawa
Electrical Conduction of Ge Nanodot Arrays Formed on an Oxidized Si Surface
Appl. Phys. Lett., **91** (2007) 123104.

J.I.Hwang, Y.Osafune, M.Kobayashi, K.Ebata, Y.Ooki, Y.Ishida, A.Fujimori, Y.Takeda, T.Okane, Y.Saitoh, K.Kobayashi and A.Tanaka
Depth Profile High-Energy Spectroscopic Study of Mn-Doped GaN Prepared by Thermal Diffusion
J. Appl. Phys., **101** (2007) 103709.

Y.Nakayama, K.Takase, T.Hirahara, T.Okuda, A.Harasawa, I.Matsuda, Y.Nakamura and M.Ichikawa
Quantum-Size Effect in Uniform Ge-Sn Alloy Nanodots Observed by Photoemission Spectroscopy
Jpn. J. Appl. Phys., **46** (2007) L1176.

18B

M.Tabuchi and Y.Takeda
Atomic Scale Analysis of MOVPE Grown Heterostructures by X-Ray Crystal Truncation Rod Scattering Measurement
J. Cryst. Growth, **298** (2007) 12.

S.Fushinobu, M.Hidaka, A.Miyanaga and H.Imamura
New Structural Insights on Carbohydrate-Active Enzymes
J. Appl. Glycosci., **54** (2007) 95.

M.Senda, S.Kishigami, S.Kimura, M.Fukuda, T.Ishida and T.Senda
Molecular Mechanism of the Redox-Dependent Interaction between NADH-Dependent Ferredoxin Reductase and Rieske-Type [2Fe-2S] Ferredoxin
J. Mol. Biol., **373** (2007) 382.

M.Das, M.Kobayashi, Y.Yamada, S.Sreeramulu, C.Ramakrishnan, S.Wakatsuki, R.Kato and R.Varadarajan
Design of Disulfide-Linked Thioredoxin Dimers and Multimers through Analysis of Crystal Contacts
J. Mol. Biol., **372** (2007) 1278.

Y.Sugano, R.Muramatsu, A.Ichiyanagi, T.Sato and M.Shoda
DyP, a Unique Dye-Decolorizing Peroxidase, Represents a Novel Heme Peroxidase Family: Asp¹⁷¹ Replaces the Distal Histidine of Classical Peroxidases
J. Biol. Chem., **282** (2007) 36652.

T.Kubota
Structure of Peptide-GalNAc Transferase: Lectin Domain and Catalytic Domain
Seikagaku, **79** (2007) 365. (*in Japanese*).

T.Kubota
Structural Basis for Glyco-Peptide Recognition of pp-GalNAc-T10
Kessho Gakkaishi, **49** (2007) 225. (*in Japanese*).

18C

D.Nishio-Hamane, K.Fujino, Y.Seto and T.Nagai
Effect of the Incorporation of FeAlO₃ into MgSiO₃ Perovskite on the Post-Perovskite Transition
Geophysical Res. Lett., **34** (2007) L12307.

D.Nishio-Hamane, Y.Seto, T.Nagai and K.Fujino
Ferric Iron and Aluminum Partitioning between MgSiO₃- and CaSiO₃-Perovskite under Oxidizing Conditions
J. Mineralogical and Petrological Sciences, **102** (2007)

K.Takemura
Pressure Scales and Hydrostaticity
High Pressure Res., **27** (2007) 465.

H.Hirai and S.Ohno
Intermolecular Interactions of Filled-Ice Hydrogen Hydrates and their Implications to Planetary Science
J. Jpn. Soc. Planetary Sciences, **16** (2007) 32. (*in Japanese*).

H.Hirai, S.Ohno, T.Kawamura, Y.Yamamoto and T.Yagi
Changes in Vibration Modes of Hydrogen and Water Molecules and in Lattice Parameters with Pressure for Filled-Ice Hydrogen Hydrates
J. Phys. Chem. C, **111** (2007) 312.

S.Machida, H.Hirai, T.Kawamura, Y.Yamamoto and T.Yagi
Raman Spectra of Methane Hydrate up to 86 GPa
Phys. Chem. Minerals, **34** (2007) 31.

S.Machida and H.Hirai
Stability of Methane Hydrate under High Pressure and its Possible State in the Icy Planets
J. Jpn. Soc. Planetary Sciences, **16** (2007) 38. (*in Japanese*).

19A

T.Okuda
Spin-Resolved Photoemission Fermi Surface Mapping
J. Jpn. Soc. Synchrotron Rad. Res., **20** (2007) 159. (*in Japanese*).

19B

Y.Taguchi, K.Kitamoto, K.Mimura, S.Kawamata, T.Ishida, O.Aita and K.Ichikawa,
Mn 3d State of Pr_{0.5}Ca_{0.5}MnO_{3-δ} Studied by Mn 2p-3d Resonant Photoemission Spectroscopy
J. Elec. Spec. Relat. Phenom., **156-158** (2007) 430.

M.Hirai, T.Wakita, H.Okazaki, D.Koishihara, Y.Muraoka and T.Yokoya
Study of Electronic Structures for Fe Thin Films Deposited on Si- and C-Faces of 4H-SiC Substrates by Soft X-Ray Emission Spectroscopy
Appl. Surf. Sci., **254** (2007) 26.

S.Mimuro, S.Shibako, Y.Oyama, K.Kobayashi, T.Higuchi, S.Shin and S.Yamaguchi
Proton Incorporation and Defect Chemistry of Yb-Doped BaPrO₃
Solid State Ionics, **178** (2007) 641.

H.Kakemoto, T.Higuchi, H.Shibata, S.Wada and T.Tsurumi
Optical Constants of β-FeSi₂ Film on Si Substrate Obtained from Transmittance and Reflectance Data and Origin of Urbach Tail
Jpn. J. Appl. Phys., **46** (2007) 2405.

H.Kakemoto, T.Higuchi, H.Shibata, S.Wada and T.Tsurumi
Structural and Transport Properties of β-FeSi₂ [100] Oriented Thin Film on Si(001) Substrate
J. Cryst. Growth, **301-302** (2007) 400.

T.Higuchi, T.Hattori and T.Tsukamoto
Unoccupied Electronic State at Low Temperature of SrTiO_{3-δ} Probed by Resonant Inverse Photoemission Spectroscopy
Trans. Mater. Res. Soc. Jpn., **32** (2007) 95.

T.Higuchi, T.Hattori and T.Tsukamoto
Polarization Dependence for Electronic Structure of Bi₄Ti₃O₁₂ Single Crystal Probed by Soft-X-Ray Raman Scattering
Trans. Mater. Res. Soc. Jpn., **32** (2007) 19.

M.Wakui, T.Higuchi, M.Satake, T.Hattori and T.Tsukamoto
Electronic and Structural Properties of La₂Ti₂O₇ Thin Films Prepared on SrTiO₃ Substrates
Trans. Mater. Res. Soc. Jpn., **32** (2007) 83.

H.Kakemoto, T.Higuchi, H.Shibata, S.Wada and T.Tsurumi
Optical Constants of β-FeSi₂ Thin Film on Si(001) Substrate Obtained by Simultaneous Equations from Reflectance and Transmittance Spectra
Thin Solid Films, **515** (2007) 8154.

20A

H.Miyagi, A.Ichimura and N.Kouchi
Theoretical Study on the Angular Correlation of Two Lyman-α Photons Generated by Single-Photon Absorption of a Hydrogen Molecule
J. Phys. B, **40** (2007) 617.

P.Lablanquie, T.Aoto, Y.Hikosaka, Y.Morioka, F.Penent and K.Ito
Appearance of Interatomic Coulombic Decay in Ar, Kr, and Xe Homonuclear Dimers
J. Chem. Phys., **127** (2007) 154323.

H.Yoshii, T.Aoto, Y.Morioka and T.Hayaishi
Satellite Structures of Kr and Xe Studied by High-Resolution Threshold Photoelectron Spectroscopy
J. Phys. B, **40** (2007) 2765.

20B

A.Levina, H.H.Harris and P.A.Lay
X-Ray Absorption and EPR Spectroscopic Studies of the Biotransformations of Chromium(VI) in Mammalian Cells. Is Chromodulin an Artifact of Isolation Methods?
J. Am. Chem. Soc., **129** (2007) 1065.

P.Shah, V.Strezov, C.Stevanov and P.F.Nelson
Speciation of Arsenic and Selenium in Coal Combustion Products
Energy and Fuels, **21** (2007) 506.

27A

Y.Baba, T.Sekiguchi, I.Shimoyama and N.Hirao
Outline of Micro-XAFS System Installed at the Synchrotron Soft X-Ray Beamline JAEA-Technology, **2006-058** (2007) 1. (*in Japanese*).

J.Deng, Y.Baba, T.Sekiguchi, N.Hirao and M.Honda
Effect of Substrates on the Molecular Orientation of Silicon Phthalocyanine Dichloride Thin Films
J. Phys.: Condens. Matter, **19** (2007) 196205.

S.Sakai, H.Naramoto, P.V.Avrarov, T.Yaita, V.Lavrentiev, K.Narumi Y.Baba and Y.Maeda
Comparative Study of Structures and Electrical Properties in Cobalt-Fullerene Mixtures by Systematic Change of Cobalt Content
Thin Solid Films, **515** (2007) 7758.

Md.A.Mannan, M.Nagano, N.Hirao and Y.Baba
Characterization of Hexagonal Boron Carbonitride (h-BCN) Films Prepared by RF Plasma Enhanced CVD
Proc. the 24th International Japan-Korea Seminar on Ceramics, (2007) 289.

H.Ikeura-Sekiguchi and T.Sekiguchi
Attosecond Electron Delocalization in the Conduction Band through the Phosphate Backbone of Genomic DNA
Phys. Rev. Lett., **99** (2007) 228102.

M.A.Mannan, M.Nagano, K.Shigezumi, T.Kida, N.Hirao and Y.Baba
Characterization of Boron Carbonitride (BCN) Thin Films Deposited by Radiofrequency and Microwave Plasma Enhanced Chemical Vapor Deposition
Am. J. Applied Sci., **5** (2007) 736.

J.Deng, T.Sekiguchi, Y.Baba, N.Hirao and M.Honda
Orientation of Thin Films Synthesized from Silicon Phthalocyanine Dichloride on Highly Oriented Pyrolytic Graphite Investigated using Near Edge X-Ray Absorption Fine Structure
Jpn. J. Appl. Phys., **46** (2007) 770.

M.L.M.Rocco, T.Sekiguchi and Y.Baba
Photon Stimulated Ion Desorption from Condensed Thiolane Photoexcited around the S 1s-Edge
J. Elec. Spec. Relat. Phenom., **156-158** (2007) 115.

27B

T.Naganuma, S.Imura, T.Iwatsuki, T.Kawakubo, K.Kobayashi, M.Saigusa, H.Sato, K.Shimada, Y.Shirakabe, Y.Takano, K.Takayama, H.Tawara, H.Hashimoto, Y.Morita, H.Yasuda, M.Yamashita, H.Yoshida, T.Kaneko, T.Taniuchi, Y.Sato, T.Ogawa, S.Yabushita, T.Hayashi, N.P.Hua and R.Nakai
Preliminary Study on Synchrotron X-Ray Irradiation against Hypothetical Intra-meteorite/-comet Habitable Zones
Space Utilization Res., **23** (2007) 406. (*in Japanese*).

A.Ikeda, T.Yaita, Y.Okamoto, H.Shiwaku, S.Suzuki, T.Suzuki and Y.Fujii
Extended X-Ray Absorption Fine Structure Investigation of Adsorption and Separation Phenomena of Metal Ions in Organic Resin
Anal. Chem., **79** (2007) 8016.

S.Sakai, H.Naramoto, P.V.Avrarov, T.Yaita, V.Lavrentiev, K.Narumi Y.Baba and Y.Maeda
Comparative Study of Structures and Electrical Properties in Cobalt-Fullerene Mixtures by Systematic Change of Cobalt Content
Thin Solid Films, **515** (2007) 7758.

28A

K.Nakayama, T.Sato, K.Terashima, H.Matsui, T.Takahashi, M.Kubota, K.Ono, T.Nishizaki, Y.Takahashi and N.Kobayashi
Bulk and Surface Low-Energy Excitations in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ Studied by High-Resolution Angle-Resolved Photoemission Spectroscopy
Phys. Rev. B, **75** (2007) 014513.

T.Arakane, T.Sato, T.Takahashi, H.Ding, T.Fujii and A.Asamitsu
Fermi Surface and Band Dispersions of M_xCoO_2 (M: Na, K, and Rb) Studied by Angle-Resolved Photoemission Spectroscopy
J. Phys. Soc. Jpn., **76** (2007) 054704.

T.Arakane, T.Sato, T.Takahashi, T.Fujii and A.Asamitsu
Electronic Structure of M_xCoO_2 (M: Na, K, and Rb) Studied by High-Resolution Angle-Resolved Photoemission Spectroscopy
Physica C, **463-465** (2007) 149.

M.Ikeda, T.Yoshida, A.Fujimori, M.Kubota, K.Ono, K.Unozawa, T.Sasagawa and H.Takagi
Lanthanide Substitution Effects in Electron-Doped High- T_c Superconductors Studied by Angle-Resolved Photoemission Spectroscopy
J. Supercond. Nov. Magn., **20** (2007) 563.

H.Iwasawa, Y.Aiura, T.Saitoh, Y.Yoshida, I.Hase, S.I.Ikeda, H.Bando, M.Kubota and K.Ono
Electronic Structure of Sr_2RuO_4 Studied by Angle-Resolved Photoemission Spectroscopy
J. Magn. Magn. Mater., **310** (2007) 678.

S.Kaneyoshi, H.Iwasawa, T.Saitoh, J.Inaba, T.Katsufuji, I.Hase, M.Higashiguchi, K.Shimada, H.Namatame, M.Taniguchi, M.Kubota and K.Ono
Independent Control of Charge and Spin Density in $\text{Sr}_{1-(x+y)}\text{La}_{x+y}\text{Ti}_{1-x}\text{Cr}_x\text{O}_3$ Probed by Photoemission Spectroscopy
J. Magn. Magn. Mater., **310** (2007) e278.

M.Kubota, K.Ono and T.Yoshida
Electronic Structure of Layered Manganite $\text{La}_{1.1}\text{Sr}_{1.9}\text{Mn}_2\text{O}_7$ Studied by Angle-Resolved Photoemission Spectroscopy at Low Temperatures
J. Elec. Spec. Relat. Phenom., **156** (2007) 398.

old 28B

T.Miyanaga, T.Ogasawara, T.Okazaki, Y.Sakisaka, K.Okamoto, S.Nagamatsu and T.Fujikawa
Local Magnetic Structures of Ni-Mn Alloys in Ordered and Disordered States Studied by Magnetic XAFS
J. Magn.Magn. Mater., **310** (2007) e601.

T.Miyanaga, T.Ogasawara, T.Okazaki, Y.Sakisaka, K.Okamoto, S.Nagamatsu and T.Fujikawa
Measurements and Theoretical Calculations of Magnetic XAFS for Ni-Mn Alloys in Ordered and Disordered States
AIP Conf. Proc., **882** (2007) 502.

NE1A1

H.Sakurai, E.Murayama, M.Ota, K.Takano, F.Itoh, X.Liu, H.Kawata, H.Adachi, Y.Sakurai, M.Itou and A.Koizumi
Anisotropies of Spin Densities in Metallic Multilayers with Perpendicular Anisotropies
J. Magn. Magn. Mater., **310** (2007) 2710.

H.Sakurai
Anisotropy of Magnetic Compton Profiles in Perpendicular Magnetic Anisotropy Films
J. Jpn. Soc. Synchrotron Rad. Res., **20** (2007) 297. (*in Japanese*).

NE1B

T.Saito, T.Katayama, T.Ishikawa, M.Yamamoto, D.Asakura and T.Koide
X-Ray Absorption Spectroscopy and X-Ray Magnetic Circular Dichroism of Epitaxially Grown Heusler Alloy Co_2MnSi Ultrathin Films Facing a MgO Barrier
Appl. Phys. Lett., **91** (2007) 262502.

K.Sato, M.Sugawara, T.Jinno, M.Toyoda, T.Hatano, A.Arai and M.Yanagihara
X-Ray Magnetic Circular Dichroism Studies for Fe/Si Interfaces using Standing Waves
J. Phys.: Conference Series, **83** (2007) 012012.

T.Taniuchi, R.Yasuhara, H.Kumigashira, M.Kubota, H.Okazaki, T.Wakita, T.Yokoya, K.Ono, M.Oshima, M.Lippmaa, M.Kawasaki and H.Koinuma
Thickness Dependence of Magnetic Domain Formation in $\text{La}_{0.65}\text{Sr}_{0.4}\text{MnO}_3$ Epitaxial Thin Films Studied by XMCD-PEEM
Surf. Sci., **601** (2007) 4690.

NE3A

R.Masuda, S.Kitao, Y.Kobayashi, M.Seto, R.Haruki, X.-W.Zhang and S.Kishimoto
Dependence of Incoherent Nuclear Resonant Scattering of Synchrotron Radiation on the Number of Resonant Nuclei
J. Phys. Soc. Jpn., **76** (2007) 023710.

T.Kawauchi, M.Matsumoto, K.Fukutani, T.Okano, S.Kishimoto, X.Zhang and Y.Yoda
Apparatus for Time-Resolved and Energy-Resolved Measurement of Internal Conversion Electron Emission Induced by Nuclear Resonant Excitation with Synchrotron Radiation
Rev. Sci. Instrum., **78** (2007) 013303.

NE5A

T.T.Lwin, T.Takeda, J.Wu, N.Sunaguchi, T.Murakami, S.Mouri, S.Nasukawa, Q.Huo, T.Yuasa, K.Hyodo and T.Akatsuka
Preliminary Quantitative Analysis of Myocardial Fatty Acid Metabolism from Fluorescent X-Ray Computed Tomography Imaging
J. Synchrotron Rad., **14** (2007) 158.

T.Takeda, J.Wu, T.T.Lwin, Q.Huo, N.Sunaguchi, T.Murakami, S.Mouri, S.Nasukawa, T.Yuasa, K.Hyodo, H.Hontani, M.Minami and T.Akatsuka
In-vivo Fluorescent X-Ray CT Imaging of Mouse Brain
AIP Conf. Proc., **CP879** (2007) 1944.

J.Wu, T.Takeda, T.T.Lwin, Q.Huo, N.Sunaguchi, T.Murakami, S.Mouri, S.Nasukawa, T.Fukami, T.Yuasa, K.Hyodo, H.Hontani, M.Minami and T.Akatsuka
Validity of Fusion Imaging of Hamster Heart Obtained by Fluorescent and Phase-Contrast X-Ray CT with Synchrotron Radiation
AIP Conf. Proc., (2007) 1956.

S.Akishima, S.Matsushita, F.Sato, K.Hyodo, T.Imazuru, Y.Enomoto, M.Noma, Y.Hiramatsu, O.Shigeta and Y.Sakakibara
Cigarette-Smoke-Induced Vasoconstriction of Perihilar Arteries
Circ. J., **71** (2007) 418.

Y.Sakakibara, S.Matsushita, F.Sato and K.Hyodo
Investigation of the Hypersensitive Awsthesia for Coldness in Women using Synchrotron Radiation Microangiography.
Annual Report of Akaeda Medical Research Foundation, **14** (2007) 9. (*in Japanese*).

K.Tokumori, F.Toyofuku, Z.Higashida, A.Yoshida, K.Hyodo and M.Ando
Development of Micro-Focus Fluorescent X-Ray Source using Synchrotron Radiation
Medical Imaging Tech., **25** (2007) 257. (*in Japanese*).

NE5C

S.Kawasaki, Y.Nojima, T.Yokomae, F.Okino and H.Touhara

Hardness of High-Pressure High-Temperature Treated Single-Walled Carbon Nanotubes
Physica B, **388** (2007) 59.

K.Kusaba, T.Yagi, J.Yamura, N.Miyajima and T.Kikegawa

Single-Crystal to Single-Crystal Phase Transition with a Large Deformation in Zn(OH)₂ under High-Pressure
J. Chem. Phys. Lett., **437** (2007) 61.

A.Yamada, T.Inoue, S.Urakawa, K.Funakoshi, N.Funamori, T.Kikegawa, H.Ohfuji and T.Irifune
In situ X-Ray Experiment on the Structure of Hydrated Mg-Silicate Melt under High Pressure and High Temperature
Geophysical Res. Lett., **34** (2007)

T.Narushima, T.Hattori, T.Kinoshita, A.Hinzmann and K.Tsuji
Pressure Dependence of the Structure of Liquid Sn up to 19.4 GPa
Phys. Rev. B, **76** (2007) 104204.

T.Hattori, K.Tsuji, Y.Miyata, T.Sugahara and F.Shimojo
Pressure-Induced Structural Change of Liquid InAs and the Systematics of Liquid III-V Compounds
Phys. Rev. B, **76** (2007) 144206.

NW2A

A.Suzuki, Y.Inada, K.Asakura and M.Nomura
Time-Resolved DXAFS Study of Adsorption and Release of Hydrogen on Pt/MCM-41
AIP Conf. Proc., **882** (2007) 675.

M.Tada and Y.Iwasawa
Design of Novel Re Catalyst for Direct Phenol Synthesis and Characterization of its Catalytically Active Structure
J. Jpn. Soc. Synchrotron Rad. Res., **20** (2007) 99. (*in Japanese*).

M.Tada, S.Murata, T.Asaoka, K.Hiroshima, K.Okumura, H.Tanida, T.Uruga, Y.Inada, M.Nomura, H.Nakanishi, S.Matsumoto and Y.Iwasawa
In-Situ Time-Resolved XAFS Study on Power-on/off Processes of Pt/C Cathode in Fuel Cell
Shokubai, **49** (2007) 93. (*in Japanese*).

T.Yamaguchi, S.Tashiro, M.Tominaga, M.Kawano, T.Ozeki and M.Fujita
Self-Assembly and Host-Guest Chemistry of a 3.5-nm Coordination Nanotube
Chem. Asian J., **2** (2007) 468.

K.Nakabayashi, M.Kawano, T.Kato, K.Furukawa, S.Ohkoshi, T.Hozumi and M.Fujita
Manipulating the Through-Space Spin-Spin Interaction of Organic Radicals in the Confined Cavity of a Self-Assembled Cage
Chem. Asian J., **2** (2007) 164.

M.Tada, S.Murata, T.Asaoka, K.Hiroshima, K.Okumura, H.Tanida, T.Uruga, H.Nakanishi, S.Matsumoto, Y.Inada, M.Nomura and Y.Iwasawa

In Situ Time-Resolved Dynamic Surface Events on the Pt/C Cathode in a Fuel Cell under Operando Conditions
Angew. Chem. Int. Ed., **46** (2007) 4310.

M.Tada, R.Bal, T.Sasaki, Y.Uemura, Y.Inada, S.Tanaka, M.Nomura, and Y.Iwasawa
A Novel Re-Cluster/HZSM-5 Catalyst for Highly Selective Phenol Synthesis from Benzene and O₂: Performance and Reaction Mechanism
J. Phys. Chem. C, **111** (2007) 10095.

T.Matsushita, Y.Inada, Y.Niwa, M.Ishii, K.Sakurai and M.Nomura
Curved Crystal X-Ray Optics for a New Type of High Speed, Multiwavelength Dispersive X-Ray Reflectometer
J. Phys.: Conf. Ser., **83** (2007) 012021.

M.Tada, Y.Uemura, T.Sasaki, R.Bal, Y.Inada, M.Nomura and Y.Iwasawa
Reaction Mechanism of Direct Phenol Synthesis from Benzene and O₂ on a HZSM-5-Supported N-Interstitial Re-Cluster Catalyst
Shokubai, **49** (2007) 406. (*in Japanese*).

T.Haneda, M.Kawano, T.Kojima and M.Fujita
Thermo-to-Photo Switching of the Chromic Behavior of Salicylideneanilines via Inclusion in a Porous Coordination Network
Angew. Chem. Int. Ed., **46** (2007) 6643.

M.Kawano, T.Kawamichi, T.Haneda, T.Kojima and M.Fujita
The Modular Synthesis of Functional Porous Coordination Networks
J. Am. Chem. Soc., **129** (2007) 15418.

T.Yamamoto, A.Suzuki, Y.Nagai, T.Tanabe, F.Dong, Y.Inada, M.Nomura, M.Tada and Y.Iwasawa
Origin and Dynamics of Oxygen Storage/Release in a Pt/Ordered CeO₂-ZrO₂ Catalyst Studied by Time-Resolved XAFS Analysis
Angew. Chem. Int. Ed., **46** (2007) 9253.

K.Suzuki, M.Kawano, S.Sato and M.Fujita
Endohedral Peptide Lining of a Self-Assembled Molecular Sphere to Generate Chirality-Confined Hollows
J. Am. Chem. Soc., **129** (2007) 10652.

T.Murase, S.Sato and M.Fujita
Switching the Interior Hydrophobicity of a Self-Assembled Spherical Complex through the Photoisomerization of Confined Azobenzene Chromophores
Angew. Chem. Int. Ed., **46** (2007) 5133.

NW10A

Y.Izumi, D.Masih, K.Aika and Y.Seida
Erratum to "Creation of Micro and Mesoporous Fe^{III} Materials Utilizing Organic Template Followed by Carboxylates Exchange for the Low Concentrations of Arsenic Removal" [Microporous and Mesoporous Materials 94 (2006) 243]
Micropor. Mesopor. Mater., **99** (2007) 355.

M.Nomura, Y.Koike, M.Sato, A.Koyama, Y.Inada and K.Asakura
A New XAFS Beamline NW10A at the Photon Factory
AIP Conf. Proc., **882** (2007) 896.

Y.Izumi, K.Konishi, M.Tsukahara, D.M.Obaid and K.Aika
Selective Butanol Synthesis over Rhodium-Molybdenum Catalysts Supported in Ordered Mesoporous Silica
J. Phys. Chem. C, **111** (2007) 10073.

T.Naito, H.Sugawara, T.Inabe, Y.Kitajima, T.Miyamoto, H.Niimi and K.Asakura
Uv-vis Induced Vitrification of A Molecular Crystal
Adv. Func. Mater., **17** (2007) 1663.

J.Lu, X.Zhang, J.J.Bravo-Suarez, K.K.Bando, T.Fujitani and S.T.Oyama
Direct Propylene Epoxidation over Barium-Promoted Au/Ti-TUD Catalysts with H₂ and O₂: Effect of Au Particle Size
J. Catal., **250** (2007) 350.

Y.Izumi, D.Masih, E.Roisin, J.Candy, H.Tanida and T.Uruga
X-Ray Absorption Fine Structure Combined with X-Ray Fluorescence Spectrometry. Part 18. Tin Site Structure of Pt-Sn Catalyst
Materials Letters, **61** (2007) 3833.

M.Tada, R.Coquet, J.Yoshida, M.Kinoshita and Y.Iwasawa
Selective Formation of A Coordinatively Unsaturated Metal Complex at a Surface: A SiO₂-Immobilized, Three-Coordinate Ruthenium Catalyst for Alkene Epoxidation
Angew. Chem. Int. Ed., **46** (2007) 7220.

M.Tada and Y.Iwasawa
Advanced Design of Catalytically Active Reaction Space at Surfaces for Selective Catalysis
Coord. Chem. Rev., **251** (2007) 2702.

H.Ikemoto and T.Miyayama
Extended X-Ray Absorption Fine Structure Study of Local Structure and Atomic Correlations of Tellurium Nanoparticles
Phys. Rev. Lett., **99** (2007) 165503.

S.Emura, Y.Arata, Y.Arachi, M.Nunogami and A.Ohmura
Atomic Structure Analysis of Pd Nano-Cluster in Nano-Composite Pd/ZrO₂ Absorbing High Temperature Soc. Jpn., **33** (2007) 142. (*in Japanese*).

Y.Arachi, S.Emura, A.Omura, M.Nunogami, T.Asai, S.Yamura, A.Inoue and Y.Arata
Alternation of the Pd Lattice in Nano-Sized-Pd/ZrO₂ Composite during Hydrogen Absorption
AIP Conf. Proc., **882** (2007) 740.

NW12A

- Y.Gaponov, N.Matsugaki, N.Honda, K.Sasajima, N.Igarashi, M.Hiraki, Y.Yamada and S.Wakatsuki
Development of Control Applications for High-Throughput Protein Crystallography Experiments
AIP Conf. Proc., **879** (2007) 1932.
- M.Hiraki, S.Watanabe, Y.Yamada, N.Matsugaki, N.Igarashi, Y.Gaponov and S.Wakatsuki
Automated Sample Exchange Robots for the Structural Biology Beam Lines at the Photon Factory
AIP Conf. Proc., **879** (2007) 1924.
- N.Matsugaki, Y.Yamada, N.Igarashi and S.Wakatsuki
Design and Construction of the High-Speed Network Connecting All the Protein Crystallography Beam Lines at the Photon Factory
AIP Conf. Proc., **879** (2007) 1936.
- Y.Tanaka, K.Morikawa, T.Ohki, M.Yao, K.Tsumoto, N.Watanabe, T.Ohta and I.Tanaka
Structural and Mutational Analyses of Drp35 from *Staphylococcus aureus* : A Possible Mechanism for its Lactonase Activity
J. Biol. Chem., **282** (2007) 5770.
- H.Nishimasu, S.Fushinobu, H.Shoun and T.Wakagi
Crystal Structures of an ATP-Dependent Hexokinase with Broad Substrate Specificity from the Hyperthermophilic Archaeon *Sulfolobus tokodaii*
J. Biol. Chem., **282** (2007) 9923.
- Y.Nijikken, T.Tsukada, K.Igarashi, M.Samejima, T.Wakagi, H.Shoun and S.Fushinobu
Crystal Structure of Intracellular Family 1 β -Glucosidase BGL1A from the Basidiomycete *Phanerochaete chrysosporium*
FEBS Lett., **581** (2007) 1514.
- Y.-T.Wang, W.-J.Yang, C.-L.Li, L.G.Doudeva and H.S.Yuan
Structural Basis for Sequence-Dependent DNA Cleavage by Nonspecific Endonucleases
Nucleic Acids Res., **37** (2007) 584.
- M.Senda, S.Kishigami, S.Kimura and T.Senda
Crystallization and Preliminary X-Ray Analysis of the Reduced Rieske-Type [2Fe-2S] Ferredoxin derived from *Pseudomonas* sp. Strain KKS102
Acta Cryst. F, **63** (2007) 311.
- R.Natsume, M.Eitoku, Y.Akai, N.Sano, M.Horikoshi and T.Senda
Structure and Function of the Histone Chaperone CIA/ASF1 Complexed with Histones H3 and H4
Nature, **446** (2007) 338.
- Y.Sato, R.Natsume, M.Tsuda, J.Damborsky, Y.Nagata and T.Senda
Crystallization and Preliminary Crystallographic Analysis of a Haloalkane Dehalogenase, DbjA, from *Bradyrhizobium japonicum* USDA110
Acta Cryst. F, **63** (2007) 294.
- S.Fushinobu, M.Hidaka, A.Miyayama and H.Imamura
New Structural Insights on Carbohydrate-Active Enzymes
J. Appl. Glycosci., **54** (2007) 95.
- M.Fujihashi, N.Numoto, Y.Kobayashi, A.Mizushima, M.Tsujimura, A.Nakamura, Y.Kawarabayasi and K.Miki
Crystal Structure of Archaeal Photolyase from *Sulfolobus tokodaii* with Two FAD Molecules: Implication of a Novel Light-Harvesting Cofactor
J. Mol. Biol., **365** (2007) 903.
- S.Watanabe, R.Matsumi, H.Atomi, T.Imanaka and K.Miki
Crystallization and Preliminary X-Ray Crystallographic Studies of [NiFe] Hydrogenase Maturation Proteins, HypC and HypD
Acta Cryst. F, **63** (2007) 538.
- T.Kaminishi, D.N.Wilson, C.Takemoto, J.M.Harms, M.Kawazoe, F.Schluenzen, K.Hanawa-Suetsugu, M.Shirouzu, P.Fucini and S.Yokoyama
A Snapshot of the 30S Ribosomal Subunit Capturing mRNA via the Shine-Dalgarno Interaction
Structure, **15** (2007) 289.
- H.Morita, S.Kondo, S.Oguro, H.Noguchi, S.Sugio, I.Abe and T.Kohno
Structural Insight into Chain-Length Control and Product Specificity of Pentaketide Chromone Synthase from *Aloe arborescens*
Chemistry and Biology, **14** (2007) 359.
- S.Watanabe, R.Matsumi, T.Arai, H.Atomi, T.Imanaka and K.Miki
Crystal Structures of [NiFe] Hydrogenase Maturation Proteins, HypC, HypD and HypE: Insights into Cyanation Reaction by Thiol Redox Signaling
Mol. Cell, **27** (2007) 29.
- T.Imasaki, T.Shimizu, H.Hashimoto, Y.Hidaka, S.Kose, N.Imamoto, M.Yamada and M.Sato
Structural Basis for Substrate Recognition and Dissociation by Human Transportin 1
Mol. Cell, **28** (2007) 57.
- M.Senda, S.Kishigami, S.Kimura, M.Fukuda, T.Ishida and T.Senda
Molecular Mechanism of the Redox-Dependent Interaction between NADH-Dependent Ferredoxin Reductase and Rieske-Type [2Fe-2S] Ferredoxin
J. Mol. Biol., **373** (2007) 382.
- M.Senda, S.Kishigami, S.Kimura and T.Senda
Crystallization and Preliminary X-Ray Analysis of the Electron-Transfer Complex of Rieske-Type [2Fe-2S] Ferredoxin and NADH-Dependent Ferredoxin Reductase Derived from *Acidovorax* sp. Strain KKS102
Acta Cryst. F, **63** (2007) 520.
- A.Izumi, D.Rea, T.Adachi, S.Unzai, S.-Y.Park, D.I.Roper and J.R.Tame
Structure and Mechanism of HpcG, a Hydratase in the Homoprotocatechuate Degradation Pathway of *Escherichia coli*
J. Mol. Biol., **370** (5) (2007) 899.
- T.Hiraki, N.Shibayama, Y.H.Yoon, K.M.Yun, T.Hamamoto, J.R.Tame and S.-Y.Park
Crystallization and Preliminary Crystallographic Studies of the Metalloglycoprotein Esterase A4 using a Baculovirus Expression System
Acta Cryst. F, **63** (2007) 734.
- M.Chirifu, C.Hayashi, T.Nakamura, S.Toma, T.Shuto, H.Kai, Y.Yamagata, S.J.Davis and S.Ikemizu
Crystal Structure of the IL-15-IL-15R α Complex, a Cytokine-Receptor Unit Presented *in trans*
Nature Immunology, **8** (2007) 1001.
- R.Ishii, A.Minagawa, H.Takaku, M.Takagi, M.Nashimoto and S.Yokoyama
The Structure of the Flexible Arm of *Thermotoga maritima* tRNase Z Differs from those of Homologous Enzymes
Acta Cryst F, **63** (2007) 637.
- T.Satoh, N.P.Cowieson, W.Hakamata, H.Ideo, K.Fukushima, M.Kurihara, R.Kato, K.Yamashita and S.Wakatsuki
Structural Basis for Recognition of High Mannose Type Glycoproteins by Mammalian Transport Lectin VIP36
J. Biol. Chem., **282** (2007) 28246.
- M.Nagae, A.Tsuchiya, T.Katayama, K.Yamamoto, S.Wakatsuki and R.Kato
Structural Basis of the Catalytic Reaction Mechanism of Novel 1,2- α -L-Fucosidase(AFCA) from *Bifidobacterium bifidum*
J. Biol. Chem., **282** (2007) 18497.
- A.Nakamura, C.Wada and K.Miki
Structural Basis for Regulation of Bifunctional Roles in Replication Initiator Protein
Proc. Natl. Acad. Sci. USA, **104** (2007) 18484.
- K.Yokoyama, S.A.Ishijima, H.Koike, C.Kurihara, A.Shimowasa, M.Kabasawa, T.Kawashima and M.Suzuki
Feast/Famine Regulation by Transcription Factor FL11 for the Survival of the Hyperthermophilic Archaeon *Pyrococcus* OT3
Structure, **15** (2007) 1542.
- Y.Ashikawa, H.Uchimura, Z.Fujimoto, K.Inoue, H.Noguchi, H.Yamane and H.Nojiri
Crystallization and Preliminary X-Ray Diffraction Studies of the Ferredoxin Reductase Component in the Rieske Nonhaem Iron Oxygenase System Carbazole 1,9a-Dioxygenase
Acta Cryst. F, **63** (2007) 499.
- T.Kubota
Structure of Peptide-GalNAc Transferase: Lectin Domain and Catalytic Domain
Seikagaku, **79** (2007) 365. (*in Japanese*).

T.Kubota
Structural Basis for Glyco-Peptide Recognition
of pp-GalNAc-T10
Kessho Gakkaishi, **49** (2007) 225. (*in Japanese*).

NW14A

K.Ichihayagi, S.Adachi, S.Nozaawa, Y.Hironaka,
K.G.Nakamura, T.Sato, A.Tomita and
S.Koshinara
Shock-Induced Lattice Deformation of CdS
Single Crystal by Nanosecond Time-Resolved
Laue Diffraction
Appl. Phys. Lett., **91** (2007) 231918.

S.Nozaawa, S.Adachi, J.Takahashi, R.Tazaki,
L.Guerin, M.Daimon, A.Tomita, T.Sato,
M.Chollet, E.Collet, H.Cailleau, S.Yamamoto,
K.Tsuchiya, T.Shioya, H.Sasaki, T.Mori,
K.Ichihayagi, H.Sawa, H.Kawata and
S.Koshihara
Developing 100 ps-Resolved X-Ray Structural
Analysis Capabilities on Beamline NW14A at
the Photon Factory Advanced Ring
J. Synchrotron Rad., **14** (2007) 313.

SPF

M.Doyama, Y.Kogure, M.Inoue, T.Kurihara,
M.Matsuya, K.Tsuno, T.Yoshiie and M.Fujinami
Transmission Positron Images and Microscopes
Phys. Stat. Sol.(c), **4** (2007) 3977.

Others

Y.Wakabayashi, M.H.Upton, S.Grenier, J.P.Hill,
C.S.Nelson, H.Zheng and J.F.Mitchell
X-Ray Investigation of Cleavage Plane of Single
Layered Manganite $\text{La}_{0.5}\text{Sr}_{1.5}\text{MnO}_4$
Thin Solid Films, **515** (2007) 5741.

M.Kubota, K.Ono, R.Y.Umetsu, H.Akinaga,
A.Sakuma and K.Fukamichi
Pseudogap Formation in MnPt and MnPd
Appl. Phys. Lett., **90** (2007) 91911.

K.Iwano and Y.Shimoi
Density Functional Theory of Chlorine-Bridged
Platinum Complexes: Monomer, Chain, and
Two-Leg Ladders
J. Phys. Soc. Jpn., **76** (2007) 063708.

Y.Wakabayashi, M.H.Upton, S.Grenier, J.P.Hill,
C.S.Nelson, J.-W.Kim, P.J.Ryan, A.I.Goldman,
H.Zheng and J.F.Mitchell
Surface Effects on the Orbital Order in the Single
Layered Manganite $\text{La}_{0.5}\text{Sr}_{1.5}\text{MnO}_4$
Nature Materials, **6** (2007) 972.

M.Kotsugi, T.Wakita, N.Kawamura, T.Taniuchi,
K.Ono, M.Suzuki, M.Oshima, N.Ishimatsu,
M.Taniguchi and H.Maruyama
Application of Photoelectron Emission
Microscopy (PEEM) to Extraterrestrial Materials
Surf. Sci., **601** (2007) 4764.

N.Usami, K.Kobayashi, Y.Furusawa, H.Frohlich,
S.Lacombe and C.Le Sech
Irradiation of DNA Loaded with Platinum
Containing Molecules by Fast Atomic Ions C^{6+}
and Fe^{26+}
Int. J. Radiat. Biol., **83** (2007) 569.

Light Source Division

T.Honda, S.Asaoka, W.X.Cheng, K.Haga,
K.Harada, Y.Hori, M.Izawa, T.Kasuga,
Y.Kobayashi, H.Maezawa, A.Mishina,
T.Mitsuhashi, T.Miyajima, H.Miyauchi,
S.Nagahashi, T.Nogami, T.Obina, C.O.Pak,
S.Sakanaka, H.Sasaki, Y.Sato, T.Shioya,
M.Tadano, T.Takahashi, Y.Tanimoto,
K.Tsuchiya, T.Uchiyama, A.Ueda, K.Umemori
and S.Yamamoto
Commissioning of the PF Ring after the
Reconstruction for the Straight-Sections Upgrade
AIP Conf. Proc., **879** (2007) 87.

T.Obina, C.O.Pak, Y.Sato, A.Mishina, K.Harada,
Y.Kobayashi, T.Miyajima, S.Nagahashi,
T.Nogami, S.Sakanaka, T.Shioya, M.Tadano,
T.Takahashi, Y.Tanimoto and K.Umemori
Upgrade of the Photon Factory Control System
AIP Conf. Proc., **879** (2007) 95.

K.Umemori, T.Furuya, S.Sakanaka, T.Suwada,
T.Takahashi, H.Sakai, K.Shinoe and
M.Sawamura
Design of L-Band Superconducting Cavity for
the Energy Recovery Linacs
Proc. 4th Asian Particle Accel. Conf., (2007)

T.Miyajima, S.Adachi, W.X.Cheng, K.Haga,
K.Harada, Y.Hori, K.Hyodo, T.Ieiri, S.Isagawa,
T.Kageyama, T.Kasuga, H.Kawata, M.Kikuchi,
Y.Kobayashi, K.Kudo, T.Mitsuhashi,
S.Nagahashi, T.T.Nakamura, H.Nakanishi,
T.Nogami, T.Obina, Y.Ohsawa, M.Ono, T.Ozaki,
H.Sakai, Y.Sakamoto, S.Sakanaka, M.Sato,
M.Satoh, T.Shioya, R.Sugahara, M.Tadano,
T.Takahashi, S.Takasaka, Y.Tanimoto, M.Teijima,
K.Tsuchiya, T.Uchiyama, A.Ueda, K.Umemori,
S.Yamamoto and S.Yoshimoto
Status of the 6.5-GeV Photon Factory Advanced
Ring
AIP Conf. Proc., **879** (2007) 91.

S.Sakanaka, S.Asaoka, W.X.Cheng, K.Haga,
K.Harada, T.Honda, M.Izawa, T.Kasuga,
Y.Kobayashi, H.Maezawa, A.Mishina,
T.Mitsuhashi, T.Miyajima, H.Miyauchi,
S.Nagahashi, T.Nogami, T.Obina, C.O.Pak,
H.Sasaki, Y.Sato, T.Shioya, M.Tadano,
T.Takahashi, Y.Tanimoto, K.Tsuchiya,
T.Uchiyama, A.Ueda, K.Umemori, S.Yamamoto,
T.Ieiri, S.Isagawa, T.Kageyama, M.Kikuchi,
K.Kudo, T.T.Nakamura, H.Nakanishi, K.Oide,
M.Ono, T.Ozaki, H.Sakai, Y.Sakamoto,
S.Takasaka, M.Teijima and S.Yoshimoto
Status of the Photon Factory
Proc. 4th Asian Particle Accel. Conf., (2007)
142.

T.Kasuga, T.Furuya, H.Kawata, Y.Kobayashi,
S.Sakanaka, K.Satoh, N.Nakamura and
R.Hajima
Future Light Source Based on Energy Recovery
Linac in Japan
Proc. 4th Asian Particle Accel. Conf., (2007)
172.

T.Kasuga, T.Agoh, A.Enomoto, S.Fukuda,
K.Furukawa, T.Furuya, K.Haga, K.Harada,
S.Hiramatsu, T.Honda, K.Hosoyama, M.Izawa,
E.Kako, H.Kawata, M.Kikuchi, Y.Kobayashi,
M.Kuriki, T.Mitsuhashi, T.Miyajima, T.Naito,
S.Nagahashi, T.Nogami, S.Noguchi, T.Obina,
S.Ohsawa, M.Ono, T.Ozaki, S.Sakanaka,
H.Sasaki, S.Sasaki, K.Satoh, M.Satoh,
T.Shioya, T.Shishido, T.Suwada, M.Tadano,
T.Takahashi, Y.Tanimoto, M.Tawada,
M.Tobiyama, K.Tsuchiya, T.Uchiyama,
K.Umemori, S.Yamamoto, R.Hajima,
H.Iijima, N.Kikuzawa, E.J.Minehara, R.Nagai,
N.Nishimori, M.Sawamura, A.Ishii, I.Ito,
H.Kudoh, N.Nakamura, H.Sakai, T.Shibuya,
K.Shinoe, H.Takaki, M.Katoh, A.Mochihashi,
M.Shimada, H.Hanaki and H.Tomizawa
Status of R&D Efforts Toward the ERL-Based
Future Light Source in Japan
Proc. 2007 Particle Accel. Conf., (2007) 1016.

S.Sakanaka
Classification of Eigenmodes in a Side-Coupled
Structure According to the Space Group
Representations
Proc. 2007 Particle Accel. Conf., (2007) 2116.

S.Sakanaka, T.Mitsuhashi and T.Obina
Measurement of Quadrupolar Tune Shifts after
the Reconstruction of the Photon Factory Storage
Ring
Proc. 2007 Particle Accel. Conf., (2007) 4039.