

1A

M.Oshima, K.Ono, M.Mizuguchi, H.Fujioka, M.Tanaka and H.Akinaga
Growth and Properties of Magnetic Nanostructures on Semiconductor Surfaces
J. Mag. Soc. Jpn., **24** (2000) 67. (*in Japanese*).

1B

X.H.Chen, D.H.Chi, Z.Sun, T.Takenobu, Z.S.Liu and Y.Iwasa
Synthesis, Structure, and Transport Properties of Novel Fullerides A_3C_{70} ($A=$ Ba and Sm)
J. Am. Chem. Soc., **122** (2000) 5729.

K.Ohwada, H.Nakao, N.Takesue, Y.Fujii, M.Isobe, Y.Ueda, Y.Wakabayasi and Y.Murakami
Pressure-Induced Phase Transition in NaV_2O_5 at Low Temperature
J. Phys. Soc. Jpn., **69** (2000) 639.

H.Ootoshi, K.Ishii, T.Watanuki, A.Fujiwara and H.Suematsu
Synthesis and Crystal Structure of Europium Fullerides
Mol. Cryst. Liq. Cryst., **340** (2000) 565.

K.Ishii, T.Watanuki, A.Fujiwara, H.Suematsu, Y.Iwasa, H.Shimoda, T.Takenobu and T.Mitani
Structural Phase Transition in Ammoniated Alkali Fullerides: Orientational Ordering of Alkali Ammonia Cluster
Mol. Cryst. Liq. Cryst., **340** (2000) 571.

T.Watanuki, A.Fujiwara, K.Ishii, Y.Matsuoka, H.Suematsu, K.Ohwada, H.Nakao, Y.Fujii, K.Kikuchi and Y.Achiba
Structural Phase Transitions of Endohedral Metallofullerene $La@C_{82}$ Studied by Single Crystal X-Ray Diffraction
Mol. Cryst. Liq. Cryst., **340** (2000) 639.

A.Fujiwara, K.Ishii, T.Watanuki, H.Suematsu, H.Nakao, K.Ohwada, Y.Fujii, Y.Murakami, T.Mori, H.Kawada, T.Kikegawa, O.Shimomura, T.Matsubara, H.Hanabusa, S.Daicho, S.Kitamura and C.Katayama
Synchrotron Radiation X-Ray Powder Diffractometer Using a Cylindrical Imaging Plate
J. Appl. Crystallogr., **33** (2000) 1241.

K.Ishii, H.Ootoshi, Y.Nishi, A.Fujiwara, H.Suematsu and Y.Kubozono
Crystal Structure and Magnetic Properties of $Eu_xSr_{6-x}C_{60}$
Proc. of XIVth Int. Winterschool on Electronic Properties of Novel Materials, **84** (2000) 285.

S.Fujiki, Y.Kubozono, S.Emura, Y.Takabayashi, S.Kashino, A.Fujiwara, K.Ishii, H.Suematsu, Y.Murakami, Y.Iwasa, T.Mitani and H.Ogata
Structure and Raman Scattering of Cs_3C_{60} under High Pressure
Phys. Rev. B, **62** (2000) 5366.

M.Kobayashi, T.Hara, K.Shiota, Y.Akahama, H.Kawamura and Y.Murakami

X-Ray Diffraction and Physical Properties of Potassium Fullerides K_xC_{70}
Mol. Cryst. and Liq. Cryst., **340** (2000) 611.

Y.Kubozono, T.Takabayashi, T.Kambe, S.Fujiki, S.Kashino and S.Emura
Structure and Physical Properties of Na_4C_{60} under Ambient and High Pressures
Phys. Rev. B, **63** (2001) 045418.

2A

T.Hatsui, K.Okamoto, T.Yokoyama, Y.Kitajima, H.Tanaka, E.Ojima, A.Kobayashi and T.Ohta
Sulfur K-Edge X-Ray Absorption Spectra for BETS and BEDT-TTF Charge Transfer Salts: A Novel Probe for the Determination of Hole Concentration
Chem. Phys. Lett., **330** (2000) 309.

2B

T.Iwasaki, S.Suga, S.Imada, A.Sekiyama, K.Matsuda, M.Kotsugi, K.-S.An, T.Muro, S.Ueda, T.Matsushita, Y.Saitoh, T.Nakatani, H.Ishii, O.Sakai, R.Takayama, T.Suzuki, T.Oguchi, K.Katoh and A.Ochiai
Bulk and Surface Electronic Structures of $CePdX$ ($X=As,Sb$) Studied by $3d$ - $4f$ Resonance Photoemission
Phys. Rev. B, **61** (2000) 4621.

T.Konishi, K.Morikawa, K.Kobayashi, T.Mizokawa, A.Fujimori, K.Mamiya, F.Iga, H.Kawanaka, Y.Nishihara, A.Delin and O.Eriksson
Electronic Structure of the Strongly Hybridized Ferromagnet $CeFe_2$
Phys. Rev. B, **62** (2000) 14304.

2C

K.Ito, J.Adachi, R.Hall, S.Motoki, E.Shigemasa, K.Soejima and A.Yagishita
Photoelectron Angular Distributions from Dissociative Photoionization Channels of Fixed-in-Space Molecular Hydrogen
J. Phys. B, **33** (2000) 527.

N.A.Cherepkov, S.K.Semenov, Y.Hikosaka, K.Ito, S.Motoki, and A.Yagishita
Manifestation of Many-electron Correlations in Photoionization of the K-shell of N_2
Phys. Rev. Lett., **84** (2000) 250.

K.Ito, J.Adachi, Y.Hikosaka, S.Motoki, K.Soejima, A.Yagishita, G.Raseev and N.A.Cherepkov
Photoelectron Angular Distribution from O K Shell of Oriented CO Molecules: A Critical Comparison between Theory and Experiment
Phys. Rev. Lett., **85** (2000) 46.

S.Motoki, J.Adachi, Y.Hikosaka, K.Ito, M.Sano, K.Soejima, A.Yagishita, G.Raseev and N.A.Cherepkov
K-Shell Photoionization of CO: I. Angular Distributions of Photoelectrons from Fixed-in-Space Molecules
J. Phys. B, **33** (2000) 4193.

N.A.Cherepkov, G.Raseev, J.Adachi, Y.Hikosaka, K.Ito, S.Motoki, M.Sano, K.Soejima and A.Yagishita
K-Shell Photoionization of CO: II. Determination of Dipole Matrix Elements and Phase Differences
J. Phys. B, **33** (2000) 4213.

Y.Harada, T.Kinugasa, R.Eguchi, M.Matsubara, A.Kotani, M.Watanabe, A.Yagishita and S.Shin
Polarization Dependence of Soft-X-Ray Raman Scattering at the L Edge of TiO_2
Phys. Rev. B, **61** (2000) 12854.

M.Matsubara, T.Uozumi, A.Kotani, Y.Harada and S.Shin
Polarization Dependence of Resonant X-Ray Emission Spectra in Early Transition Metal Compounds
J. Phys. Soc. Jpn., **69** (2000) 1558.

A.Kotani and S.Shin
Resonant Inelastic Scattering Spectra for Electrons in Solids
Rev. Modern Phys., **73** (2001) 203.

K.Ito
New Insights on the Shape Resonances in the K-shell Continua of the N_2 and CO Prototype Molecules
J. Elec. Spec. Relat. Phenom., **114-116** (2001) 15.

3A

K.Ohkubo, F.Saito and S.Sasaki
Linear Response Calculation of XMCD Spectra for Fe Ions in Ferrimagnetic Oxides
Proc. of 4th Symposium on ASID, (2000) 445.

T.Harada, H.Matsuoka, T.Ikeda, H.Yamaoka, N.Hamaya, S.Sasaki, T.Mori, M.Hashimoto and T.Takahashi
The Significant Information for Colloidal Crystal Formation Revealed by Ultra-Small-Angle Synchrotron X-Ray and Neutron Scattering
Coll. Surf. A, **174** (2000) 99.

T.Uragami, H.Fujioka, I.Waki, T.Man, K.Ono, M.Oshima, Y.Takagi, M.Kimura and T.Suzuki
Generalized Incidence-Angle X-Ray Diffraction Studies on InAs Quantum Dots on Si (100) Substrates
Jpn. J. Appl. Phys., **39** (2000) 4483.

S.Sato, E.Matsubara, S.Tanaka, M.Kimura, M.Imafuku, T.Zhang and A.Inoue
In Situ Observation of Structural Evolution of $Zr_{60}Al_{15}Ni_{25}$ Bulk Metallic Glass in the Supercooled Liquid Region
High Temp. Mater. and Process, (2000)

K.Akita, Y.Yoshioka, H.Suzuki and T.Sasaki
X-Ray Fractography by Using Synchrotron Radiation Source (Residual Stress Distribution Just Beneath Fatigue Fracture Surface)
J. Soc. Mat. Sci., Japan, **49** (2000) 748. (*in Japanese*).

S.Takago, T.Sasaki, K.Akita, Y.Yoshioka and Y.Hirose
X-Ray Stress Measurement of Composite Material Using Synchrotron Radiation
J. Soc. Mat. Sci., Japan, **49** (2000) 729. (*in Japanese*).

Y.Yoshioka, T.Sasaki and K.Akita
Stress Analysis and Microbeam X-Ray Diffraction Study by Use of a Synchrotron Radiation Source
Proc. of the 6th Int. Conf. on Residual Stresses, (2000) 759. (*in Japanese*).

Y.Yoshioka, K.Akita and H.Suzuki
Residual Stress and Its Gradient in Shot-Peened Steels by Synchrotron X-Rays
Proc. of the 6th Int. Conf. on Residual Stresses, (2000) 1020. (*in Japanese*).

H.Suzuki, K.Akita, Y.Yoshioka and H.Misawa
Stress Measurements in Silicon Single Crystal by Microbeam Synchrotron X-Rays
Proc. of the 6th Int. Conf. on Residual Stresses, (2000) 1042. (*in Japanese*).

K.Akita, Y.Yoshioka, H.Suzuki and S.Kodama
X-Ray Fractography Using Synchrotron Radiation (Residual Stress Distribution in X-Ray Penetration Depth)
Proc. of the 6th Int. Conf. on Residual Stresses, (2000) 1469.

T.Sasaki, S.Takago, M.Nemoto, K.Akita, Y.Yoshioka and Y.Hirose
Study of Residual Stress Analysis of Composite Material by Using Synchrotron Radiation
Proc. of JSMS 36th Symposium on X-Ray Studies on Mechanical Behavior of Materials, (2000) 71. (*in Japanese*).

Y.Yoshioka, K.Akita and H.Suzuki
Elastic Constants of Alumina and Silicon Nitride Measured by Using Synchrotron Radiation Source
Proc. of JSMS 36th Symposium on X-Ray Studies on Mechanical Behavior of Materials, (2000) 77. (*in Japanese*).

K.Akita, Y.Yoshioka and H.Suzuki
Residual Stress Measurement in Depth Direction Using Synchrotron Radiation
Proc. of JSMS 36th Symposium on X-Ray Studies on Mechanical Behavior of Materials, (2000) 82. (*in Japanese*).

H.Suzuki, K.Akita, Y.Yoshioka and H.Misawa
X-Ray Stress Measurements of Single Crystal in Local Area Using Synchrotron Radiation
Proc. of JSMS 36th Symposium on X-Ray Studies on Mechanical Behavior of Materials, (2000) 97. (*in Japanese*).

S.Takago, T.Sasaki and Y.Hirose
Application of Synchrotron Radiation to Investigate Deformation Behavior of Sintered Fe-Cr/TiN Composites
International Society Offshore Polar Eng., **4** (2000) 124.

K.Matsumoto, F.Saito, T.Toyoda, K.Ohkubo, K.Yamawaki, T.Mori, K.Hirano, M.Tanaka and S.Sasaki
Site-Specific Studies on X-Ray Magnetic Circular Dichroism at Fe *K* Edge for Transition-Metal Ferrites
Jpn. J. Appl. Phys., **39** (2000) 6089.

N.Kita, N.Shibuichi and S.Sasaki
X-Ray Magnetic Circular Dichroism in Cobalt-Iron Spinels and Electronic States of Co Ions
J. Synchrotron Rad., **8** (2001) 446.

M.Kimura and A.Ikari
In situ Observation of Si(001) Surface in He Atmosphere at High Temperatures
J. Appl. Phys., **89** (2001) 2138.

M.Kimura
In situ Observation of Critical Phenomena at Surfaces of Cu₃Au(001) and Si(001) Near the Transition Temperatures by X-Ray Evanescent Wave
Transactions of the Materials Research Soc. Jpn., **26** (2001) 775.

3B

A.Sekiyama, T.Iwasaki, K.Matsuda, Y.Saitoh, Y.Onuki and S.Suga
Probing Bulk States of Correlated Electron Systems by High-Resolution Resonance Photoemission
Nature, **403** (2000) 396.

T.Iwasaki, S.Suga, S.Imada, A.Sekiyama, K.Matsuda, M.Kotsugi, K.-S.An, T.Muro, S.Ueda, T.Matsushita, Y.Saitoh, T.Nakatani, H.Ishii, O.Sakai, R.Takayama, T.Suzuki, T.Oguchi, K.Katoh and A.Ochiai
Bulk and Surface Electronic Structures of CePdX (X=As,Sb) Studied by 3d-4f Resonance Photoemission
Phys. Rev. B, **61** (2000) 4621.

A.Ehresmann, S.Machida, M.Kitajima, M.Ukai, K.Kameta, N.Kouchi, Y.Hatano, E.Shigemasa and T.Hayaishi
Dissociative Single and Double Photoionization with Excitation between 37 and 69 eV in N₂.
J. Phys. B: At. Mol. Opt. Phys., **33** (2000) 473.

A.Sekiyama, S.Suga, S.Imada, H.Takagi, T.Nanba, R.Takayama, O.Sasaki and S.Kunii
Effect of a Crystalline Electric Field on Photoemission Spectra of CeB₆
Physica B, **in press** (2000)

K.Matsuda, A.Sekiyama, S.Suga, S.Imada, Y.Saitoh, T.Matsushita, S.Ueda, H.Harada, T.Iwasaki, M.Kotsugi, M.Hedo, Y.Onuki, E.Yamamoto, Y.Haga, R.Takayama and O.Sakai
High-Resolution Resonant Photoemission Study of CeRu₂
Physica B, **in press** (2000)

M.Suemitsu, Y.Enta, Y.Miyanishi, T.Takegawa and N.Miyamoto
Transition from Random to Island Mode during Si(100)-(2×1) Dry Oxidation and its Description with Autocatalytic Reaction Model
Appl. Surf. Sci., **162** (2000) 293.

T.Maruyama, A.Hirasawa, T.Shindow, K.Akimoto, H.Kato and A.Kakizaki
Energy-Level Alignment at NTCDA/Metal and PTCDA/NTCDA Interfaces Studied by UPS
J. Luminescence, **87/89** (2000) 782.

3C3

H.Adachi, H.Kawata and M.Ito
Anisotropic Spin Form Factor as SmAl₂
Phys. Rev., **B63** (2001) 054406.

4A

S.Hayakawa, K.Kobayashi and Y.Gohshi
A Compact X-Ray Beam Intensity Monitor using Gas Amplified Sample Current Measurement
Rev. Sci. Instrum., **71** (2000) 20.

S.Hayakawa, X.-P.Jia, M.Wakatsuki, Y.Gohshi and T.Hirokawa
Analysis of Trace Co in Synthetic Diamonds using Synchrotron Radiation Excited X-Ray Fluorescence Analysis
J. Cryst. Growth, **210** (2000) 388.

S.Homma-Takeda, Y.Kumagai and N.Shimojo
Application of SR-XRF to Histopathology
Medical Imaging Technology, **18** (2000) 447. (*in Japanese*).

K.Hayashi, M.Sai, T.Yamamoto, J.Kawai, M.Nishino, S.Hayakawa and Y.Gohshi
Data Processing for Obtaining Atomic Images from SrTiO₃ X-Ray Fluorescence Hologram
Jpn. J. Appl. Phys., **39** (2000) 1414.

N.Hattan, K.Ban, E.Tanaka, S.Abe, T.Sekka, Y.Sugio, M.U.Mohammed, E.Sato, Y.Shinozaki, Y.Onishi, H.Summa, S.Handa, S.Kawada, S.Hori, A.Iida, H.Nakazawa and H.Mori
Transmyocardial Revascularization Aggravates Myocardial Ischemia around the Channels in the Immediate Phase
American J. Physiology, **279** (2000) H1392.

T.Noma, K.Takada and A.Iida
Thin-Film Characterization by Synchrotron X-Ray Micro-Diffraction Using Grazing Exit Conditions
Advances in X-ray Anal., **42** (2000) 578.

A.Iida and Y.Takanishi
Characterization of the Local Layer Structures in the Smectic Liquid Crystals using Synchrotron X-Ray Micro-Diffraction
J. Jpn. Liquid Crystal Soc., **4** (2000) 367. (*in Japanese*).

M.Hamaguchi and K.Okoshi
Molecular Mechanism of Magnetite Formation in Mollusks
Kaiyo Monthly, **32** (2000) 379. (*in Japanese*).

Y.Takahashi, A.Iida, Y.Takanishi, T.Ogasaware, K.Ishikawa and H.Takezoe
Dynamic Behaviour of the Local Layer Structure of Antiferroelectric Liquid Crystals under a High Electric Field Measured by Time-Resolved Synchrotron X-Ray Microbeam Diffraction
Jpn. J. Appl. Phys., **40** (2001) 3294.

4B2

Y.Kubota, M.Takata, M.Sakata, T.Ohba, K.Kifune and T.Tadaki
A Charge Density Study of the Intermetallic Compound MgCu₂ by the Maximum Entropy Method
J. Phys.: Condens. Matter, **12** (2000) 1253.

H.Toraya
Crystal Structure Refinement of a-Si₃N₄ Using Synchrotron Radiation Powder Diffraction Data: Unbiased Refinement Strategy
J. Appl. Cryst., **33** (2000) 95.

H.Toraya
Crystal Structure Refinement of a-Si₃N₄ Using Synchrotron Radiation Powder Diffraction Data
Rigaku Denki J., **31** (2000) 19. (*in Japanese*).

T.Ida, H.Hibino and H.Toraya
Peak Profile Function for Synchrotron X-Ray Diffractometry
J. Appl. Cryst., **34** (2001) 144.

T.Ida
Model Peak Profile Functions for Powder Diffractometry as Convolutions with Instrumental Functions
Rigaku Denki J., **32** (2001) 24. (*in Japanese*).

K.Hirota, N.Oumi, T.Matsumura, H.Nakao, Y.Wakabayashi, Y.Murakami and Y.Endoh
Direct Observation of Antiferroquadrupolar Ordering: Resonant X-Ray Scattering Study of DyB₂C₂
Phys. Rev. Lett., **84** (2000) 2706.

M.Noguchi, A.Nakazawa, S.Oka, T.Arima, Y.Wakabayashi, H.Nakao, and Y.Murakami
Synchrotron X-Ray-Diffraction Study of Orbital Ordering in YVO₃
Phys. Rev. B, **62** (2000) R9271.

T.Shimura, T.Hosoi and M.Umeno
Analysis of Ordered Structure of Buried Oxide Layers in SIMOX Wafers
Proc. of the 19th Inter. Sympo. Silicon-on-Insulator Tech. and Devices, **99-3** (2000) 155.

T.Shimura, T.Hosoi and M.Umeno
Characterization of SOI Wafers by X-Ray CTR Scattering
J. Cryst. Growth, **210** (2000) 98.

T.Shimura, T.Hosoi and M.Umeno
Ordered SiO₂ in the Buried Oxide of SIMOX SOI Wafers
Proc. of the 4th Symp. on Atomic-scale Surface and Interface Dynamics, **4** (2000) 395.

T.Shimura, T.Hosoi and M.Umeno
The Crystalline SiO₂ Phase in the BOX Layers of SIMOX Wafers
The 3rd SANKEN Int. Symp. on Advanced Nanoelectronics: Devices, Materials, and Computing, **57** (2000) 128.

M.Takahasi, Y.Hayashi, J.Mizuki, K.Tamura, T.Kondo, H.Naohara and K.Uosaki
Pseudomorphic Growth of Pd Monolayer on Au(111) Electrode Surface
Surf. Sci., **461** (2000) 213.

H.Nakao, K.Ohwada, N.Takesue, Y.Fujii, M.Isobe, Y.Ueda, M.V.Zimmermann, J.P.Hill, D.Gibbs, J.C.Woicik, I.Koyama and Y.Murakami
X-Ray Anomalous Scattering Study of a Charge-Ordered State in NaV₂O₅
Phys. Rev. Lett., **85** (2000) 4349.

H.Abe, Y.Matsuo, H.Saitoh, T.Kusawake, K.Ohshima and H.Nakao
Atomic Short-Range Order in an Al₇₂Ni₂₀Co₈ Decagonal Quasicrystal by Anomalous-X-Ray Scattering
Jpn. J. Appl. Phys., **39** (2000) L1111.

H.Abe, K.Harada, R.J.Matsuo, H.Uwe and K.Ohshima
X-Ray Diffuse Scattering Associated with Ferroelectric Microregions in KTa_{1-x}Nb_xO₃
J. Phys.: Condens. Matter, **13** (2001) 3257.

4C

6A

I.Sugiura, O.Nureki, Y.U.Yoshikawa, S.Kuwabara, A.Shimada, M.Tateno, B.Lorber, R.Giege, D.Moras, S.Yokoyama and M.Konno
The 2.0 Å Crystal Structure of *Thermus thermophilus* Methionyl-tRNA Synthetase Reveals Two RNA-Binding Modules
Structure, **8** (2000) 197.

Y.-Q.Shen, J.Li, S.-Y.Song and Z.-J.Lin
Structure of Apo-glyceraldehyde-3-phosphate Dehydrogenase from *Palinurus versicolor*
J. Structural Biol., **130** (2000) 1.

K.Fukuda, H.Mizuno, H.Atoda and T.Morita
Crystal Structure of Flavocetin-A, a Platelet Glycoprotein Ib-Binding Protein, Reveals a Novel Cyclic Tetramer of C-type Lectin-like Heterodimers
Biochem., **39** (2000) 1915.

T.Matsumoto, Y.Morimoto, N.Shibata, T.Kinebuchi, N.Shimamoto, T.Tsukihara and N.Yasuoka
Roles of Functional Loops and the C-Terminal Segment of a Single-Stranded DNA Binding Protein Elucidated by X-Ray Structure Analysis
J. Biochem., **127** (2000) 329.

K.Suto, K.Kawagoe, N.Shibata, Y.Morimoto, Y.Higuchi, M.Kitamura, T.Nakaya and N.Yasuoka
How do the X-Ray Structure and the NMR Structure of FMN-Binding Protein Differ?
Acta Cryst., **D56** (2000) 368.

T.Nogi, M.Kobayashi, T.Nozawa and K.Miki
Crystallization and Preliminary Crystallographic Analysis of the High-Potential Iron-Sulfur Protein from *Thermochromatium Tepidum*
Acta Cryst., **D56** (2000) 656.

Y.Oda, K.Saeki, Y.Takahashi, T.Maeda, H.Naitow, T.Tsukihara and K.Fukuyama
Crystal Structure of Tobacco Necrosis Virus at 2.25 Å Resolution
J. Mol. Biol., **300** (2000) 153.

N.Mizuno, D.S.Hittel, K.Miki, G.Voordouw and Y.Higuchi
Preliminary X-Ray Crystallographic Study of DrsD Protein from the Sulfate-Reducing Bacterium *Desulfovibrio Vulgaris*
Acta Cryst., **D56** (2000) 754.

Z.Fujimoto, A.Kuno, S.Kaneko, S.Yoshida, H.Kobayashi, I.Kusakabe and H.Mizuno
Crystal Structure of *Streptomyces Olivaceoviridis* E-86 β-Xylanase Containing Xylan-binding Domain
J. Mol. Biol., **300** (2000) 575.

K.Hamada, T.Shimizu, T.Matsui, S.Tsukita and T.Hakoshima
Structural Basis of the Membrane-Targeting and Unmasking Mechanisms of the Radixin FERM Domain
EMBO J., **19** (2000) 4449.

K.Hamada, T.Matsui, S.Tsukita, S.Tsukita and T.Hakoshima
Crystallographic Characterization of the Membrane-Binding Domain of Radixin
Acta Crystallogr. D, **56** (2000) 922.

K.Takano, Y.Yamagata and K.Yutani
Role of Amino Acid Residues at Turns in the Conformational Stability and Folding of Human Lysozyme
Biochem., **39** (2000) 8655.

M.Sugahara, T.Mikawa, R.Kato, K.Fukuyama, T.Kumasaka, M.Yamamoto, Y.Inoue and S.Kuramitsu
Crystallization and Preliminary X-Ray Crystallographic Studies of *Thermus thermophilus* HB8 MutM Protein Involved in Repairs of Oxidative DNA Damage
J. Biochem., **127** (2000) 9.

M.Sugahara, T.Mikawa, T.Kumasaka, M.Yamamoto, R.Kato, K.Fukuyama, Y.Inoue and S.Kuramitsu
Crystallization and Preliminary X-Ray Crystallographic Studies of a Repair Enzyme of Oxidatively Damaged DNA, MutM (Fpg), from an Extreme Thermophile, *Thermus thermophilus* HB8
EMBO J., **19** (2000) 3857.

N.Tanaka, T.Nonaka, K.T.Nakamura and A.Hara
SDR: Structure, Mechanism of Action, and Substrate Recognition
Current Organic Chemistry, **4** (2000) 945.

N.Kato, T.Sugiyama, S.Naito, Y.Arakawa, H.Ito, N.Kido, M.Ohta and K.Sasaki
Molecular Structure of Bacterial Endotoxin (*Escherichia coli* Re Lipopolysaccharide): Implications for Formation of a Novel Heterogeneous Lattice Structure
Mol. Microbiol., **36** (2000) 796.

M.Tabuchi, R.Takahashi, M.Araki, K.Hirayama, N.Futakuchi, Y.Shimogaki, Y.Nakano and Y.Takeda
X-Ray CTR Scattering Measurement of InP/InGaAs/InP Interface Structures Fabricated by Different Growth Processes
Appl. Surf. Sci., **159-160** (2000) 250.

M.Tabuchi, K.Hirayama, Y.Takeda, T.Takeuchi, H.Amano and I.Akasaki
Characterization of Initial Growth Stage of GaInN Multi-Layered Structure by X-Ray CTR Scattering Method
Appl. Surf. Sci., **159-160** (2000) 432.

M.J.Fei, E.Yamashita, N.Inoue, M.Yao, H.Yamaguchi, T.Tsukihara, K.Shinzawa-Itoh, R.Nakashima and S.Yoshikawa
X-Ray Structure of Azide-Bound Fully Oxidized Cytochrome c Oxidase from Bovine Heart at 2.9 Å Resolution
Acta Cryst. D, **56** (2000) 529.

J.J.Song, C.S.Lee, Y.S.Kim, J.J.Kim, Y.J.Im, H.H.Kim, S.J.Yoo, I.S.Seong, C.H.Chung and S.H.Eom
Crystallization and Preliminary X-Ray Crystallographic Studies of HslU Mutant in *Escherichia coli*
Bull. Korean Chem. Soc., **21** (2000) 747.

Y.J.Im, C.M.Park, J.I.Kim, S.S.Yang, J.G.Kang, S.H.Rho, J.I.Kim, W.K.Song, P.S.Song and S.H.Eom
Crystallization and Preliminary X-Ray Crystallographic Studies of Response Regulator for Cyanobacterial Phytochrome, Rcp1
Acta Cryst., **D56** (2000) 1446.

K.Ichiyanagi, Y.Ishino, M.Ariyoshi, K.Komori and K.Morikawa
Crystal Structure of an Archaeal Intein-Encoded Homing Endonuclease PI-PfuI
J. Mol. Biol., **300** (2000) 889.

M.T.Hossain, T.Hikima, M.Tsunoda, T.Chatake, Y.Ueno, A.Matsuda and A.Takenaka
X-Ray Analyses of Two DNA Dodecamers Containing N4-Methoxycytosine Paired with Adenine or Guanine
Nucleic Acids Symposium Series, **44** (2000) 239.

J.Kondo and A.Takenaka
Crystallization of the Most Active RNA-Cleaving Deoxyribozyme
Nucleic Acids Symposium Series, **44** (2000) 201.

M.Sugishima, Y.Omata, Y.Kakuta, H.Sakamoto, M.Noguchi and K.Fukuyama
Crystal Structure of Rat Heme Oxygenase-1 in Complex with Heme
FEBS Lett., **471** (2000) 61.

Y.Tomisugi, M.Unno, T.Mizushima, Y.Morimoto, M.Tanahashi, K.Tanaka, T.Tsukihara and M.Yasuoka
New Crystal Forms and Low Resolution Structure Analysis of 20S Proteasomes from Bovine Liver
J. Biochem., **127** (2000) 941.

T.Nogi, I.Fathir, M.Kobayashi, T.Nozawa and K.Miki
Crystal Structures of Photosynthetic Reaction Center and High-Potential Iron-Sulfur Protein from Thermochromatium Tepidum; Thermostability and Electron Transfer
Proc. Natl. Acad. Sci. USA, **97** (2000) 13561.

T.Sasaki, M.Nakahara, A.Matsuda, T.Yamasaki, S.Katoh, S.Ohshima, I.Oonishi and A.Uchida
Crystallization and Preliminary X-Ray Diffraction Studies of Cytochrome c₆ from *Porphyra yezoensis*
Acta Cryst., **D56** (2000) 79.

H.Ura, K.Harata, I.Matsui and S.Kuramitsu
Temperature Dependence of the Enzyme-Substrate Recognition Mechanism
J. Biochem., **129** (2001) 173.

J.Wang, J.J.Song, M.C.Franklin, S.Kamtekar, Y.J.Im, S.H.Rho, I.S.Seong, C.S.Lee, C.H.Chung, and S.H.Eom
Crystal Structures of the HsIVU Peptidase-ATPase Complex Reveal an ATP-Dependent Proteolysis Mechanism
Structure, **9** (2001) 177.

K.Yamada, N.Kunishima, K.Mayanagi, T.Ohnishi, T.Nishino, H.Iwasaki, H.Shinagawa and K.Morikawa
Crystal Structure of the Holliday Junction Migration Motor Protein RuvB from *Thermus thermophilus* HB8
PNAS, **98** (2001) 1442.

M.Tsunoda, N.Karino, Y.Ueno, A.Matsuda and A.Takenaka
Crystallization and Preliminary X-Ray Analysis of a DNA Dodecamer Containing 2'-deoxy-5-formyluridine; What is the Role of Magnesium Cation in Crystallization of Dickerson-Type DNA Dodecamers?
Acta Cryst., **D57** (2001) 345.

T.Yokota, T.Tonomura, Y.Shimura, K.Ichikawa, S.Kamitori and Y.Sakano
Structures of Thermoactinomyces Vulgaris R-47 Alpha-Amylase II Complexed with Substrate Analogues
Biosci. Biotechnol. Biochem., **65** (2001) 619.

S.Sogabe and K.Miki
Crystal Structure of the Oxidized Cytochrome c₂ from *viridis*
FEBS Lett., **491** (2001) 174.

M.Fujihashi, Y.-W.Zhang, Y.Higuchi, X.-Y.Li, T.Koyama and K.Miki
Crystal Structure of Cis-Prenyl Chain Elongating Enzyme, Undecaprenyl Diphosphate Synthase
Proc. Natl. Acad. Sci. USA, **98** (2001) 4337.

S.Ito, S.Fushinobu, I.Yoshioka, S.Koga, H.Matsuzawa and T.Wakagi
Structural Basis for the ADP-Specificity of a Novel Glucokinase from a Hyperthermophilic Archaeon
Structure with Folding and Design, **9** (2001) 205.

Y.Yamagata, K.Ogasahara, Y.Hioki, S.J.Lee, A.Nakagawa, H.Nakamura, M.Ishida, S.Kuramitsu and K.Yutani
Entropic Stabilization of the Tryptophan Synthase α-Subunit from a Hyperthermophile, *Pyrococcus furiosus*
J. Biol. Chem., **276** (2001) 11062.

D.Suvd, Z.Fujimoto, K.Takase, M.Matsumura and H.Mizuno
Crystal Structure of *Bacillus Stearothermophilus* α-Amylase: Possible Factors Determining the Thermostability
J. Biochem., **129** (2001) 461.

J.J.Kim, S.H.Rho, Y.J.Im, E.J.Kim and S.H.Eom
Crystallization and Preliminary X-Ray Diffraction Studies of the Guanylate Kinase-Like Domain of PSD-95 Protein from Rat
Acta Cryst., **D57** (2001) 616.

Y.Matsuura, M.Stewart, M.Kawamoto, N.Kamiya, K.Saeki, T.Yasunaga and T.Wakabayashi
Structural Basis for the Higher Ca^{2+} -Activation of the Regulated Actin-Activated Myosin ATPase Observed with *Dictyostelium/Tetrahymena* Actin Chimeras
J. Mole. Biol., **296** (2000) 579.

T.Sato, Y.Yamada, S.Saijo, T.Hori, R.Hirose, N.Tanaka, G.Sazaki, K.Nakajima, N.Igarashi, M.Tanaka and Y.Matsuura
Enhancement in the Perfection of Orthorhombic Lysozyme Crystals Grown in a High Magnetic Field (10T)
Acta Cryst., **D56** (2000) 1079.

Y.Oda, K.Saeki, Y.Takahashi, T.Maeda, H.Naitow, T.Tsukihara and K.Fukuyama
Crystal Structure of Tobacco Necrosis Virus at 2.25 \AA Resolution
J. Mol. Biol., **300** (2000) 153.

P.V.Kamat, K.Murakoshi, Y.Wada and S.Yanagida
Semiconductor Nanoparticles
Handbook of Nanostructured Materials and Nanotechnology, **6** (2000) 291.

M.Sugahara, T.Mikawa, R.Kato, K.Fukuyama, T.Kumasaka, M.Yamamoto, Y.Inoue and S.Kuramitsu
Crystallization and Preliminary X-Ray Crystallographic Studies of *Thermus thermophilus* HB8 MutM Protein Involved in Repairs of Oxidative DNA Damage
J. Biochem., **127** (2000) 9.

M.Sugahara, T.Mikawa, T.Kumasaka, M.Yamamoto, R.Kato, K.Fukuyama, Y.Inoue and S.Kuramitsu
Crystal Structure of a Repair Enzyme of Oxidatively Damaged DNA, MutM (Fpg), from an Extreme Thermophile, *Thermus thermophilus* HB8
EMBO J., **19** (2000) 3857.

Y.Okamoto, T.Kubota, Y.Ohto and S.Nasu
Physicochemical Characterization of Fe/ZrO₂ Catalysts for NO-CO Reaction
J. Catal., **192** (2000) 412.

K.Ishikawa, Y.Mihara, K.Gondoh, E.Suzuki and Y.Asano
X-Ray Structures of a Novel Acid Phosphatase from *Escherichia blattae* and its Complex with the Transition-State Analog Molybdate
The EMBO J., **19** (2000) 2412.

M.T.Hossain, T.Hikima, M.Tsunoda, T.Chatake, Y.Ueno, A.Matsuda and A.Takenaka
X-Ray Analyses of Two DNA Dodecamers Containing N4-Methoxycytosine Paired with Adenine or Guanine
Nucleic Acids Symposium Series, **44** (2000) 239.

J.Kondo and A.Takenaka
Crystallization of the Most Active RNA-Cleaving Deoxyribozyme
Nucleic Acids Symposium Series, **44** (2000) 201.

T.Nogi, I.Fathir, M.Kobayashi, T.Nozawa and K.Miki
Crystal Structures of Photosynthetic Reaction Center and High-Potential Iron-Sulfur Protein from *Thermochromatium tepidum*; Thermostability and Electron Transfer
Proc. Natl. Acad. Sci. USA, **97** (2000) 13561.

M.Ariyoshi, T.Nishino, H.Iwasaki, H.Shinagawa and K.Morikawa
Crystal Structure of the Holliday Junction DNA in Complex with a Single RuvA Tetramer
PNAS, **97** (2000) 8257.

M.Aritomi, N.Kunishima and K.Morikawa
Crystallization and X-Ray Structural Analysis of a Complex between G-CSF and its Soluble Receptor
Nihon Kesshou Gakkaishi, **42** (2000) 428. (*in Japanese*).

M.Aritomi, N.Kunishima, N.Okitsu, M.Shimizu, Y.Ota and K.Morikawa
Purification, Crystallization and Preliminary X-Ray Analysis of a Complex between Granulocyte Colony-Stimulating Factor and its Soluble Receptor
Acta Cryst. D, **56** (2000) 751.

M.Tsunoda, N.Karino, Y.Ueno, A.Matsuda and A.Takenaka
Crystallization and Preliminary X-Ray Analysis of a DNA Dodecamer Containing 2'-deoxy-5-formyluridine; What is the Role of Magnesium Cation in Crystallization of Dickerson-Type DNA Dodecamers?
Acta Cryst., D, **57** (2001) 345.

S.Sogabe and K.Miki
Crystal Structure of the Oxidized Cytochrome c₂ from *viridis*
FEBS Lett., **491** (2001) 174.

M.Fujihashi, Y.-W.Zhang, Y.Higuchi, X.-Y.Li, T.Koyama and K.Miki
Crystal Structure of Cis-Prenyl Chain Elongating Enzyme, Undecaprenyl Diphosphate Synthase
Proc. Natl. Acad. Sci. USA, **98** (2001) 4337.

6C

A.Fujiwara, K.Ishii, T.Watanuki, H.Suematsu, H.Nakao, K.Ohwada, Y.Fujii, Y.Murakami, T.Mori, H.Kawada, T.Kikegawa, O.Shimomura, T.Matsubara, H.Hanabusa, S.Daicho, S.Kitamura and C. Katayama
Synchrotron Radiation X-Ray Powder Diffractometer Using a Cylindrical Imaging Plate
J. Appl. Crystallogr., **33** (2000) 1241.

Y.Kubozeno, Y.Takabayashi, S.Fujiki, S.Kashino, T.Kambe, Y.Iwasa and S.Emura
Metal-Insulator Transition at 50 K in Na₂C₆0
Phys. Rev. B, **59** (2000) 15062.

7A

Y.Baba and T.Sekiguchi

Desorption of Fragment Ions from Condensed Si(OCH₃)₄ by Localized Inner-Shell Electron Excitation at the Silicon, Oxygen, and Carbon *K* Edges

J. Vac. Sci. Technol. A, **18** (2000) 334.

I.Shimoyama, G.Wu, T.Sekiguchi and Y.Baba

Evidence for the Existence of Nitrogen-Substituted Graphite Structure by Polarization Dependence of Near Edge X-Ray Absorption Fine Structure

Phys. Rev. B, **62** (2000) R6053.

D.Kondo, K.Sakamoto, H.Takeda, W.Uchida, F.Matsui, K.Amemiya, T.Ohta and A.Kasuya

Thermal Effect in Unoccupied Molecular Orbitals of C₆₀ Molecules Adsorbed on a Si(001)-(2×1) Surface Studied by NEXAFS

J. Synchrotron Rad., **8** (2001) 505.

7B

T.Nakagawa, G.I.Boishin, H.Fujioka, H.W.Yeom, I.Matsuda, N.Takagi, M.Nishijima and T.Aruga
Fermi Surface Nesting and Structural Transition on a Metal Surface: In/Cu(001)

Phys. Rev. Lett., **86** (2001) 854.

K.Sakamoto, M.Hirano, H.Takeda, S.T.Jemander, I.Matsuda, K.Amemiya, T.Ohta, W.Uchida, G.V.Hansson and R.I.G.Uhrberg

Interaction of the Metastable Molecular Oxygen with the Dangling Bonds of a Si(111)-(7×7) Surface

J. Elec. Spec. Relat. Phenom., **114** (2001) 489.

7C

T.Inoue, S.T.Oyama, H.Imoto, K.Asakura and Y.Iwasawa
Characterization and Selective Oxidation Catalysis of Modified Pt Particles on SbOx

Appl. Catal. A. General, **191** (2000) 131.

S.Kim, T.Ohta and G.Kwag

In situ Structural Investigation of Iron Phthalocyanine Monolayer Adsorbed on Electrode Surface by X-ray Absorption Fine Structure

Bull. Korean Chem. Soc., **21** (2000) 588.

M.Shirai, K.Aoki, Y.Minato, K.Torii and M.Arai
Porous Smectite-type Materials Containing Catalytically Active Divalent Cations in Octahedral Sheets

Studies in Sur. Sci. Catal., **129** (2000) 435.

T.Hayaishi, Y.Fujita, M.Izumisawa, T.Tanaka, E.Murakami, E.Shigemasa, A.Yagishita and Y.Morioka
Multi-Step Post-Collision Interaction Effects in K-Shell Photoionization of Kr

J. Phys. B: At. Mol. Opt. Phys., **33** (2000) 37.

Y.Izumi, T.Shimizu, T.Kobayashi and K.Aika
Nitrous Oxide Decomposition Active Site on Ni-MgO Catalysts Characterized by X-Ray Absorption Fine Structure Spectroscopy

Chem. Commun., (2000) 1053.

Y.Izumi and H.Nagamori

Site-Selective X-Ray Absorption Fine Structure (XAFS) Spectroscopy (2). XAFS Spectra Tuned to Surface Active Sites of Cu/ZnO and Cr/SiO₂ Catalysts

Bull. Chem. Soc. Jpn., **73** (2000) 1581.

Y.Izumi

Oxygen Atom Radical Formation on the Sol-Gel Molybdenum-Silica Catalysts Characterized by X-Ray Absorption Fine Structure Spectroscopy Studies

Surf. Sci. Catal., **130D** (2000) 3201.

T.Miyanaga, H.Sakane and I.Watanabe

Anharmonic Potential Derived from EXAFS of Hexaaqua Transition Metal Complexes

Phys. Chem. Chem. Phys., **2** (2000) 2361.

Y.Izumi, H.Oyanagi and H.Nagamori

Site-Selective X-Ray Absorption Fine Structure (XAFS) Spectroscopy. (1) Design of Fluorescence Spectrometer and Emission Spectra

Bull. Chem. Soc. Jpn., **73** (2000) 2017.

Y.Izumi, H.Nagamori, F.Kiyotaki, T.Minato and K.Aika
Applications of Site-Selective X-Ray Absorption Fine Structure (XAFS) Spectroscopy of the Active Site of Cu/ZnO Catalysts

Syokubai, **42** (2000) 413. (*in Japanese*).

M.Shirai, K.Igeta and M.Arai

Structure and Reduction Behavior of Platinum Chloride Intercalated in Graphite Layers

Mol. Cryst. and Liq. Cryst., **340** (2000) 127.

M.Shirai, K.Torii and M.Arai

Synthesis and Size-Selective Application of Palladium Metal Particles Intercalated in Mesopore-Size Controlled Smectite

Mol. Cryst. and Liq. Cryst., **341** (2000) 321.

A.Kuno and M.Matsu

Nondestructive Speciation of Solid Mixtures by Multivariate Calibration of X-Ray Absorption Near-Edge Structure Using Artificial Neural Networks and Partial Least-Squares

Anal. Sci., **16** (2000) 597.

A.Kuno, R.A.Santos, M.Matsu and B.Takano

Characterization of Natural Chromite Samples from Ophiolite Complexes in the Philippines by ⁵⁷Fe Mössbauer Spectroscopy

J. Radioanal. Nucl. Chem., **246** (2000) 79.

T.Takewaki, S.J.Hwang, H.Yamashita and M.E.Davis

Synthesis of *BEA-Type Molecular Sieves Using Mesoporous Materials as Reagents

Microporous and Mesoporous Materials, **32** (2000) 59.

M.Matsuoka, W.S.Ju, K.Takahashi, H.Yamashita and M.Anpo
Photocatalytic Decomposition of N₂O into N₂ and O₂ at 298 K on Cu(I) on Catalysts Anchored onto Various Oxides. -The Effect of the Coordination State of the Cu(I) Ions on the Photocatalytic Reactivity-
J. Phys. Chem. B, **104** (2000) 4911.

M.Anpo, H.Yamashita, M.Matsuoka, D.R.Park, T.G.Shul and S.E.Park
Design and Development of Titanium and Vanadium Oxide Photocatalysts Incorporated within Zeolite Cavities and their Photocatalytic Reactivities
J. Ind. Eng. Chem., **6** (2000) 59.

M.C.Roman-Martinez, D.Cazorla-Amoros, H.Yamashita, S.Miguel and O.A.Scelta
XAES Study of Dried and Reduced PtSn/C Catalysts. Nature and Structure of the Catalytically Active Phase
Langmuir, **16** (2000) 1123.

C.P.Rao, K.Geetha, M.S.S.Raghavan, A.Sreedhara, K.Tokunaga, T.Yamaguchi, V.Jadhav, K.N.Ganesh, T.Krishnamoorthy, K.V.A.Ramaiah and R.K.Bhattacharyya
Transition Metal Saccharide Chemistry and Biology: Syntheses, Characterization, Solution Stability and Putative Bio-Relevant Studies of Iron-Saccharide Complexes
Inorg. Chim. Acta, **297** (2000) 373.

M.Matsuoka, S.Higashimoto, H.Yamashita and M.Anpo
Investigation of the Local Structure of Vanadium Silicalite Catalysts and Their Photocatalytic Activities for NO Decomposition
Res. Chem. Intermed., **26** (2000) 85.

L.Nagy, T.Yamaguchi, S.Yamashita, M.Nomura, T.Gajda, N.Buzas and H.Wakita
EXAFS and XANES Studies of Ni(II), Zn(II), Mn(II) and Ag(I) Complexes of Some 2-(polyhydroxyalkyl)thiazolidine-4-carboxylic Acids
ACH-Models in Chemistry, **137** (2000) 1.

S.Matsuo, T.Yamaguchi and H.Wakita
Calculations and X-Ray Absorption Near-Edge Structure of Stacking Structures of Bis(1,2-dione dioximato)nickel(II) Complexes
J. Phys. Chem. B, **104** (2000) 3471.

P.V.Kamat, K.Murakoshi, Y.Wada and S.Yanagida
Semiconductor Nanoparticles
Handbook of Nanostructured Materials and Nanotechnology, **6** (2000) 291.

Y.Okamoto, T.Kubota, Y.Ohto and S.Nasu
Physicochemical Characterization of Fe/ZrO₂ Catalysts for NO-CO Reaction
J. Catal., **192** (2000) 412.

H.Aritani, S.Kawaguchi, T.Yamamoto, T.Tanaka, Y.Okamoto and S.Imamura
Cu/ZnO₂ Catalysts for NO-CH₄ Reaction
Chem. Lett., (2000) 532.

M.Kiguchi, T.Yokoyama, D.Matsumura, H.Kondoh, O.Endo and T.Ohta
Surface Structures and Thermal Vibrations of Ni and Cu Thin Films Studied by Extended X-Ray-Absorption Fine Structure
Phys. Rev. B, **61** (2000) 14020.

A.Mitsuda, H.Wada, M.Shiga and T.Tanaka
The Eu Valence State and Valence Transition in Eu(Pd_{1-x}Pt_x)₂Si₂
J. Phys. Condens. Matt., **12** (2000) 5287.

W.B.Kim, S.H.Choi and J.S.Lee
Quantitative Analysis of Ti-O-Si and Ti-O-Ti Bonds in Ti-Si Binary Oxides by the Linear Combination of XANES
J. Phys. Chem. B, **104** (2000) 8670.

S.Yamazaki, T.Matsui, T.Ohashi and Y.Arita
Defect Structures in Doped CeO₂ Studied by using EXAFS Spectrometry
Solid State Ionics, **136** (2000) 913.

S.-J.Hwang, H.-S.Park and J.-H.Choy
Effects of Chromium Substitution on the Chemical Bonding Nature and Electrochemical Performance of Layered Lithium Manganese Oxide
J. Phys. Chem. B, **104** (2000) 7612.

S.-J.Hwang, H.-S.Park and J.-H.Choy
Evolution of Local Structure around Manganese in Layered LiMnO₂ upon Chemical and Electrochemical Delithiation/Relithiation
Chem. of Mater., **12** (2000) 1818.

J-H.Choy, W.Lee and S-J.Hwang
A New Cointercalated Superconducting Bismuth Cuprate, (HgI₂)_{0.5}I_{0.5}Bi_{1.85}Pb_{0.35}Sr_{1.9}Ca_{2.1}Cu_{3.1}O_{10+α}
J. Mater. Chem., **10** (2000) 1679.

A.I.Kozlov, A.P.Kozlova, K.Asakura, Y.Matsui, T.Kogure, T.Shido and Y.Iwasawa
Supported Gold Catalysts Prepared from a Gold Phosphine Precursor and As-Precipitated Metal-Hydroxide Precursors: Effect of Preparation Conditions on the Catalytic Performance
J. Catal., **196** (2000) 56.

S.Sugiyama, T.Moriga, H.Hayashi and J.B.Moffat
Characterization of Calcium, Strontium, Barium and Lead Hydroxyapatites: X-Ray Diffraction, Photoelectron, Extended X-Ray Absorption Fine Structuer and MAS NMR Spectroscopies
Bull. Chem. Soc. Jpn., **74** (2001) 187.

S.-J.Hwang, H.-S.Park and J.-H.Choi
Variation of the Chemical Bonding Nature of
 $\text{LiMn}_{2-x}\text{Ni}_x\text{O}_4$ Spinel Oxides upon Delithiation
and Lithiation Reactions
J. Phys. Chem. B, **105** (2001) 335.

Y.Shimizugawa, N.Umesaki, K.Handa, I.Sakai and
J.R.Qiu
X-Ray Induced Reduction of Rare Earth Ion Doped in
 $\text{Na}_2\text{O}\text{-Al}_2\text{O}_3\text{-B}_2\text{O}_3$ Glasses
J. Synchrotron Rad., **8** (2001) 797.

K.Tsugi, T.Umeki, Y.Yokoyama, T.Kitada, Y.Iwanami,
O.Nonaka, H.Shimada, N.Matsubayashi, A.Nishijima
and M.Nomura
XAFS Study on the Sulfidation Mechanisms of Co-Mo
Catalysts Supported on Activated Carbon and Alumina:
Effect of Complexing Agent
J. Synchrotron Rad., **8** (2001) 651.

Y.Izumi, H.Nagamori, F.Kiyotaka and T.Minato
Site-Selective XAFS Spectroscopy Tuned to Surface
Active Sites of Cu/ZnO and Cr/SiO₂ Catalysts
J. Synchrotron Rad., **8** (2001) 605.

K.Fukumi, A.Chayahara, K.Kakono, H.Kageyama,
T.Akai, H.Mizoguchi, N.Kitamura, M.Makihara,
Y.Horino and K.Fujii
Coordination Structures of Implanted Fe, Co, and Ni
Ions in Silica Glass by X-Ray Absorption Fine Structure
Spectroscopy
J. Mater. Res., **16** (2001) 155.

K.Ebitani, A.Nishi, Y.Hirano, H.Yoshida, T.Tanaka,
T.Mizugaki, K.Kaneda and A.Morikawa
XAFS Study on Active Pr Sites in Zeolite as a
Photocatalyst for Decomposition of Nitrous Oxide
J. Synchrotron Rad., **8** (2001) 481.

M.Harada, T.Okada and I.Watanabe
Analysis of Local Structure of Ion Adsorbed on the
Gas/Liquid Interface
Studies in Surf. Sci. Catal., **132** (2001) 121.

A.Yoshiasa, K.Nakajima, K.Murai and M.Okubo
Anharmonic Effective Pair Potentials in CaTiO₃, SrTiO₃
and CaGeO₃ Perovskite
J. Synchrotron Rad., **8** (2001) 940.

M.Okubo and A.Yoshiasa
Anharmonic Effective Pair Potentials of Group VIII and
Ib fcc Metals
J. Synchrotron Rad., **8** (2001) 937.

J.Kawai, S.Harada, I.Kishida, T.Iwazumi, R.Katano,
Y.Isozumi, H.Shoji and S.Nanao
Threshold Excitation of VK β
Adv. X-Ray Chem. Anal. Jpn., **32** (2001) 125. (*in*
Japanese).

M.Kimura, M.Kaneko and T.Suzuki
In situ Observation on Pitting of Stainless Steel
J. Synchrotron Rad., **8** (2001) 487.

M.Aritani, H.Yamada, T.Yamamoto, T.Tanaka and
S.Imamura
XANES Study of Li-MgO and Li-La₂O₃-MgO Catalysts
for Oxiative Coupling of Methane
J. Synchrotron Rad., **8** (2001) 593.

8C2

A.Momose
Phase-Contrast X-Ray Imaging
Jpn. J. Opt., **29** (2000) 287. (*in Japanese*).

9A

W.Li, L.Luo, H.Yamashita, J.A.Labinger and M.E.Davis
Synthesis and Characterization of Zeolite Beta
Containing Oxide Clusters of Antimony and Vanadium
Microporous and Mesoporous Materials, **37** (2000) 57.

H.Yamashita, M.Harada, A.Tanii, M.Honda,
M.Takeuchi, Y.Ichihashi and M.Anpo
Preparation of Efficient Titanium Oxide Photocatalysts
by an Ionized Cluster Beam Method and their
Application for the Degradation of Propanol Diluted in
Water
Studies Surf. Sci. Catal., **130** (2000) 1931.

X.Guo and K.Sakurai
Formation of Yttrium Aluminum Perovskite and Yttrium
Aluminum Garnet by Mechanical Solid-State Reaction
Jpn. J. Appl. Phys., **39** (2000) 1230.

K.Asakura
Polarization-Dependent Total Reflection Fluorescence
EXAFS Study on the 3-Dimensional Structural Analysis
of Surface Active Sites
Hyomen Kagaku, **21** (2000) 294. (*in Japanese*).

S.Yamazaki, T.Matsui, T.Ohashi and Y.Arita
Defect Structures in Doped CeO₂ Studied by using
EXAFS Spectrometry
Solid State Ionics, **136** (2000) 913.

M.Kimura, M.Kaneko and T.Suzuki
In situ Observation on Pitting of Stainless Steel
J. Synchrotron Rad., **8** (2001) 487.

W.J.Chun, Y.Tanizawa, T.Shido, Y.Iwasawa, M.Nomura
and K.Asakura
Development of an in-situ Polarization-Dependent Total
Reflection Fluorescence XAFS Measurement System
J. Synchrotron Rad., **8** (2001) 168.

M.Yasoshima, M.Matsuo, A.Kuno and B.Takano
Studies on Intake of Heavy Metals by Bradybaena
Similaris, Land Snails, by XAFS Measurement
J. Synchrotron Radiation, **8** (2001) 969.

9C

M.Nomura
Time Resolved XAFS
J. Jpn. Soc. Synchrotron Rad. Res., **13** (2000) 319. (*in*
Japanese).

A.Yamaguchi, T.Shido, Y.Inada, T.Kogure, K.Asakura, M.Nomura, and Y.Iwasawa
Time-Resolved DXAFS study on the Reduction Processes of Cu cations in ZSM-5
Catal. Lett., **68** (2000) 139.

A.Yamaguchi, T.Shido, Y.Inada, K.Asakura, M.Nomura, Y.Iwasawa
Time-Resolved DXAFS Study of the Reduction Process of Cu/ZSM-5
Shokubai, **42** (2000) 419. (*in Japanese*).

A.Yamaguchi, Y.Inada, T.Shido, K.Asakura, M.Nomura and Y.Iwasawa
In situ Energy-Dispersive XAFS Study of the Reduction Process of Cu-ZSM-5 Catalysts with 1 s Time-Resolution Studies. Surf. Sci. Catal., **132** (2001) 785.

A.Yamaguchi, A.Suzuki, T.Shido, Y.Inada, K.Asakura, M.Nomura and Y.Iwasawa
Energy-Dispersive XAFS Study on the Decarbonylation Process of Mo(CO)₆ in NaY Zeolite
Catal. Lett., **71** (2001) 203.

A.Yamaguchi, T.Shido, Y.Inada, T.Kogure, K.Asakura, M.Nomura and Y.Iwasawa
In situ Time-Resolved Energy-Dispersive XAFS Study on the Reduction Processes of Cu-ZSM-5 Catalysts
Bull. Chem. Soc. Jpn., **74** (2001) 801.

T.Shido, A.Yamaguchi, A.Suzuki Y.Inada, K.Asakura, M.Nomura and Y.Iwasawa
DXAFS Study on the Decarbonylation Process of Mo(CO)₆ in NaY Supercages
J. Synchrotron Rad., **8** (2001) 628.

A.Yamaguchi, Y.Inaba, T.Shido, K.Asakura, M.Nomura and Y.Iwasawa
Time-Resolved Energy-Dispersive XAFS Study on the Reduction Process of Cu-ZSM-5 Catalysts
J. Synchrotron Rad., **8** (2001) 654.

10A

Y.Konoike, T.Toyoda, K.Yamawaki and S.Sasaki
Observation of Charge Ordering in Mixed-Valence Compounds by X-Ray Anomalous Scattering Measurement
Proc. of 4th Symposium on ASID, (2000) 437.

K.Yamawaki, S.Sasaki, M.Kakihana and M.Tanaka
Non-Linear Temperature Dependence of Hg-O and Cu-O Distances in Hg-1212 Superconductor
Physica C, **340** (2000) 133.

K.Tsukimura and S.Sasaki
Determination of Cation Distribution in (Co,Ni,Zn)₂SiO₄ Olivine by Synchrotron X-Ray Diffraction
Phys. Chem. Minerals, **27** (2000) 234.

M.Shirai, K.Aoki, Y.Minato, K.Torii and M.Arai
Porous Smectite-type Materials Containing Catalytically Active Divalent Cations in Octahedral Sheets
Studies in Sur. Sci. Catal., **129** (2000) 435.

T.Ishioka, M.Shimizu, I.Watanabe, S.Kawauchi and M.Harada
Infrared and XAFS Study on Internal Structural Change of Ion Aggregate in a Zinc Salt of Poly(ethylene-*co*-methacrylic acid) Ionomer on Water Absorption
Macromolecules, **33** (2000) 2722.

T.Shido, K.Asakura, Y.Noguchi and Y.Iwasawa
Structure and Catalytic Performance of Mo Dimer Oxy-Carbide Species in NaY Supercages
Appl. Catal. A: General, **194** (2000) 365.

Y.Izumi
Oxygen Atom Radical Formation on the Sol-Gel Molybdenum-Silica Catalysts Characterized by X-Ray Absorption Fine Structure Spectroscopy
Studies Surf. Sci. Catal., **130D** (2000) 3201.

H.Endo, H.Hoshino, H.Ikemoto, T.Miyanaga
Semiconductor-Metal Transition in Liquid As-Te Mixtures
J. Phys.: Condensed Matt., **12** (2000) 6077.

K.K.Bando, N.Ichikuni, H.Arakawa and K.Asakura
The Effect of Li on Structure of Supported Rh Particles in Zeolite
Mol. Cryst. and Liq. Cryst., **341** (2000) 473.

H.Kusama, K.K.Bando, K.Okabe and H.Arakawa
Effect of Metal Loading on CO₂ Hydrogenation Reactivity over Rh/SiO₂ Catalysts
Appl. Catal. A: General, **197** (2000) 255.

K.K.Bando, N.Ichikuni, K.Soga, K.Kunimori, H.Arakawa and K.Asakura
Characterization of Rh Particles and Li-Promoted Rh Particles in Y Zeolite during CO₂ Hydrogenation - A New Mechanism for Catalysis Controlled by the Dynamic Structure of Rh Particles and the Li Additive Effect
J. Catal., **194** (2000) 91.

K.K.Bando, H.Arakawa, N.Ichikuni and K.Asakura
A Novel Effect of Li Additive: Dynamic Control of Rh Mobility during CO₂ Hydrogenation Reaction
Studies Surf. Sci. Catal., **130** (2000) 3759.

T.Gunji, H.Yamamoto, T.Hanaoka, K.K.Bando and Y.Abe
Preparation of Polyzirconoxane from Zirconium Oxychloride Octahydrate and Ethylene Glycol as a Precursor for Zirconia Ceramics
Appl. Organometal. Chem., **14** (2000) 119.

M.Shirai, M.Arai and K.Murakami
Aggregation and Role of Ion-Exchanged Nickel Species during Pyrolysis of Brown Coal: Influence of Extent of Metal Loading
Energy and Fuels, **14** (2000) 1038.

10B

M.Shirai, K.Igeta and M.Arai
Structure and Reduction Behavior of Platinum Chloride Intercalated in Graphite Layers
Mol. Cryst. and Liq. Cryst., **340** (2000) 127.

M.Shirai, K.Torii and M.Arai
Synthesis and Size-Selective Application of Palladium Metal Particles Intercalated in Mesopore-Size Controlled Smectite
Mol. Cryst. and Liq. Cryst., **341** (2000) 321.

M.Matsuoka, W.S.Ju, K.Takahashi, H.Yamashita and M.Anpo
Photocatalytic Decomposition of N₂O into N₂ and O₂ at 298 K on Cu(I) on Catalysts Anchored onto Various Oxides. -The Effect of the Coordination State of the Cu(I) Ions on the Photocatalytic Reactivity-
J. Phys. Chem. B, **104** (2000) 4911.

M.Anpo, M.Matsuoka, H.Yamashita, W.S.Ju, S.E.Park and Y.G.Shul
Photocatalytic Decomposition of NO on Transition Metal Ion-Exchanged Zeolite Catalysts
J. Ind. Eng. Chem., **6** (2000) 133.

L.Nagy, T.Yamaguchi, S.Yamashita, M.Nomura, T.Gajda, N.Buzas and H.Wakita
EXAFS and XANES Studies of Ni(II), Zn(II), Mn(II) and Ag(I) Complexes of Some 2-(polyhydroxyalkyl)thiazolidine-4-carboxylic Acids
ACH-Models in Chemistry, **137** (2000) 1.

S.Matsuo, T.Yamaguchi and H.Wakita
Calculations and X-Ray Absorption Near-Edge Structure of Stacking Structures of Bis(1,2-dione dioximato)nickel(II) Complexes
J. Phys. Chem. B, **104** (2000) 3471.

X.Guo and K.Sakurai
Formation of Yttrium Aluminum Perovskite and Yttrium Aluminum Garnet by Mechanical Solid-State Reaction
Jpn. J. Appl. Phys., **39** (2000) 1230.

K.Shimizu, H.Maeshima, H.Kawabata, H.Yoshida, A.Satsuma and T.Hattori
Molecular Basis for the Design of Transition-Metal Oxide Catalysts for Selective Catalytic Reduction of NO by Hydrocarbons
Studies Surf. Sci. Catal., **130** (2000) 1403.

K.Shimizu, H.Maeshima, H.Yoshida, A.Satsuma and T.Hattori
Spectroscopic Characterization of Cu-Al₂O₃ Catalyst for Selective Catalytic Reduction of NO with Propene
Phys. Chem. Chem. Phys., **2** (2000) 2435.

E.D.Park, S.H.Chi and J.S.Lee
Characterization of Pd/C and Cu Catalysts for the Oxidation of Methane to a Methanol Derivative
J. Catal., **194** (2000) 33.

T.Kubota, H.Okamoto and Y.Okamoto
Hydrodesulfurization Activity of Highly Dispersed Co Sulfide Clusters Prepared in Zeolite Cages
Catal. Lett., **67** (2000) 171.

T.Ishioka, K.Maeda, I.Watanabe, S.Kawauchi and M.Harada
Infrared and XAFS Study on Structure and Transition Behavior of Zinc Stearate
Spectrochimica Acta A, **56** (2000) 1731.

E.D.Part, S.H.Chi and J.S.Lee
Characterization of Pd/C and Cu Catalysts for the Oxidation of Methane to a Methanol Derivative
J. Catal., **194** (2000) 33.

S.H.Chi and J.S.Lee
XAFS Study of Tin Modification of Supported Palladium Catalyst for 1,3-Butadiene Hydrogenation in the Presence of 1-Butene
J. Catal., **193** (2000) 176.

E.D.Part and J.S.Lee
Effect of Surface Treatment of the Support on CO Oxidation over Carbon-Supported Wacker-Type Catalysts
J. Catal., **193** (2000) 5.

E.D.Park, S.H.Chi and J.S.Lee
Active States of Pd and Cu in Carbon-Supported Wacker-Type Catalysts for Low-Temperature CO Oxidation
J. Phys. Chem. B, **104** (2000) 5586.

Y.Okamoto, H.Okamoto and T.Kubota
Structure and Catalysis of Intrazeolite Co-Mo Binary Sulfide Model Clusters for Hydrodesulfurization Studies
Surf. Sci. Catal., **130** (2000) 2783.

S.L.Cho and S.K.Kang
Reversible Structural Transformation of Palladium Catalyst Supported on La-Al₂O₃ Probed with X-Ray Absorption Fine Structure
J. Phys. Chem. B, **104** (2000) 8124.

N.Ichikuni, D.Murata, S.Shimazu and T.Uematsu
Promoting Effect of NiAl₂O₄ for Supported Ni Particles on Sprayed Ni/Al₂O₃ Catalysts
Catal. Lett., **69** (2000) 33.

J.-H.Choy, Y.-I.Kim and S.-J.Hwang
Trigonal Planar (D_{3h}) AuI₃ Complex Stabilized in a Solid Lattice
J. Phys. Chem. B, **104** (2000) 7273.

J.-H.Choy, J.-Y.Kim, S.-H.Hwang, S.-J.Kim and G.Demazeau
Soft XAFS Study on the 4d Electronic Structure of Ruthenium in Complex Perovskite Oxide
International J. Inorg. Mater., **2** (2000) 61.

S.Matsuo, T.Yamaguchi and H.Wakita
A Structural Study of Dibromo(1,4,8,11-Tetraazacyclotetradecane)Copper(II) and Diaqua(1,4,8,11-Tetraazacyclotetradecane)Copper(II) Difluoride Four Hydrate Complex in Crystal and in Aqueous Solution by X-Ray Absorption Near Edge Structure Measurements and DV-X α Calculations
Adv. Quantum Chem., **37** (2000) 153.

K.Zama, Y.Imada, A.Fukuoka and M.Ichikawa
Propene Metathesis Reaction on Di- and Trinuclear Molybdenum Complexes Grafted on Mesoporous FSM-16 and Silica Structural Characterization and their Catalytic Performances
Appl. Catal. A, **194** (2000) 285.

K.Zama, A.Fukuoka, Y.Sasaki, S.Ingaki, Y.Fukushima and M.Ichikawa
Selective Hydroxylation of Benzene to Phenol by Photocatalysis of Molybdenum Complexes Grafted on Mesoporous FSM-16
Catal. Lett., **66** (2000) 251.

Y.Yazawa, H.Yoshida, N.Takagi, N.Kagi, S.Komai, A.Satsuma, Y.Murakami and T.Hattori
Acid Strength of Support Materials as a Factor Controlling Catalytic Activity of Noble Metal Catalysts for Catalytic Combustion Studies.
Surf. Sci. Catal., **130** (2000) 2189.

T.Shido, G.Okita, K.Asakura and Y.Iwasawa
Preparation, Characterization, and Catalytic Performance of Bismuth-Aluminum Binary-Oxide Layers and Clusters on an Al₂O₃ Surface
J. Phys. Chem. B, **104** (2000) 12263.

T.Shido, A.Yamaguchi, K.Asakura and Y.Iwasawa
Surface Catalytic Reactions Assisted by Gas Phase Molecules: Activation of Reaction Intermediates
J. Mol. Catal. :A, **163** (2000) 67.

T.Kawaguchi, N.Ichikuni, A.Yamaguchi, T.Shido, H.Onishi, K.Fukui and Y.Iwasawa
Characterization and Catalytic Performance of Designed J. Mol. Catal. A-Chem., **158** (2000) 67.

K.Tsuji, T.Umeki, Y.Yokoyama, T.Kitada, Y.Iwanami, O.Nonaka, H.Shimada, N.Matsubayashi, A.Nishijima and M.Nomura
XAFS Study on the Sulfidation Mechanisms of Co-Mo Catalysts Supported on Activated Carbon and Alumina: Effect of Complexing Agent
J. Synchrotron Rad., **8** (2001) 651.

N.Ichikuni, F.Sato, S.Shimazu and T.Uematsu
Structure and Growth Process of Niobium Carbide on Silica
Studies Surf. Sci. Catal., **132** (2001) 781.

J.-H. Choy, H.Jung and J.-B.Yoon
Co K-Edge XAS Study on a New Cobalt-Doped-SiO₂ Pillared Clay
J. Synchrotron Rad., **8** (2001) 599.

J.-Y.Kim, S.-H.Hwang, S.-J.Kim, G.Demazeau, J.-H.Choy and H.Shimada
4d Electronic Structrue Analysis of Ruthenium in the Perovskite Oxides by Ru K- and L-Edge XAS
J. Sychrotron Rad., **8** (2001) 722.

J.-H.Choy, J.-B.Yoon and J.-H.Park
In situ XAFS Study at the Zr K-Edge for SiO₂/ZrO₂ Nano-Sol
J. Sychrotron Rad., **8** (2001) 782.

S.Matsuo, N.Sakaguchi, E.Obuchi, K.Nakano, R.C.C.Perera, T.Watanabe, T.Matsuo and H.Wakita
X-Ray Absorption Spectral Analyses by Theoretical Calculations for TiO₂ and Ni-Doped TiO₂ Thin Films on Glass Plates
Anal. Sci., **17** (2001) 149.

T.Moriga, A.Fukushima, S.Hosokawa, I.Nakabayashi and K.Tominaga
Crystallization Process of Transparent Conductive Oxides Zn_kIn₂O_{k+3}
J. Synchrotron Rad., **8** (2001) 785.

K.Shimizu, J.Shibata, H.Yoshida, A.Satsuma and T.Hattori
Silver-Alumina Catalysts for Selective Reduction of NO by Higher Hydrocarbons: Structure of Active Sites and Reaction Mechanism
Appl. Catal. B, **30** (2001) 151.

Y.Yazawa, H.Yoshida and T.Hattori
XAFS Study of the Additive Cation Effect on the Oxidation-Resistance of Platinum Catalyst
J. Synchrotron Rad., **8** (2001) 560.

K.Shimizu, H.Maeshima, H.Yoshida, A.Satsuma and T.Hattori
Ligand Field Effect on the Chemical Shift in XANES Spectra of Cu(II) Compounds
Phys. Chem. Chem. Phys., **3** (2001) 862.

M.Harada and T.Okada
Atomic XAFS for a Bromide Ion Bound on Anion-Exchange Resin in Water
Anal. Sci., **17** (2001) 233.

N.Matsubayashi, K.Sato, M.Imamura, H.Shimada, P.Afanasiev and C.Geantet
Multi-Component Fitting XAFS Analysis of Molybdate Species During Catalyst Preparation by the Molten Salt Method
J. Synchrotron Rad., **8** (2001) 610.

O.Kamishima, K.Ohta, Y.Chiba and T.Hattori
Local Structure Around Yb in SrZr_{1-x}Yb_xO₃
J. Phys. : Condensed Matt., **13** (2001) 2455.

T.Shido, A.Yamaguchi, A.Suzuki Y.Inada, K.Asakura, M.Nomura and Y.Iwasawa
DXAFS Study on the Decarbonylation Process of Mo(CO)₆ in NaY Supercages
J. Synchrotron Rad., **8** (2001) 628.

A.Yamaguchi, Y.Inaba, T.Shido, K.Asakura, M.Nomura
and Y.Iwasawa
Time-Resolved Energy-Dispersive XAFS Study on the
Reduction Process of Cu-ZSM-5 Catalysts
J. Synchrotron Rad., **8** (2001) 654.

10C

S.Kutsumizu, H.Tagawa, Y.Moroga and S.Yano
Small-Angle X-ray Scattering Investigation of
Noncrystalline Poly(ethylene-*co*-methacrylic acid)
Ionomers
Macromolecules, **33** (2000) 3818.

T.Ogasawara, K.Izawa, N.Hattori, H.Okabayashi and
C.J.O'Connor
Growth Process for Fractal Polymer Aggregates Formed
by Perfluoroctyltrimethoxysilane. Time-Resolved
Small-Angle X-Ray Scattering Study
Colloid Polym. Sci., **278** (2000) 293.

J.Masamoto, K.Yajima, S.Sakurai, S.Aida, M.Ueda and
S.Nomura
Microphase Separation in Polyoxyethylene End-
Capped with a Long-Chain Alkyl
polymer, **41** (2000) 7283.

S.Sakurai, Y.Okamoto, H.Sakaue, T.Nakamura, L.Banda
and S.Nomura
Structure and Properties of Segmented
Poly(urethaneurea)s with Relatively Short Hard-
Segment Chains
J. Poly. Sci., **38** (2000) 1716.

S.Kutsumizu, K.Tadano, Y.Matsuda, M.Goto,
H.Tachino, H.Hara, E.Hirasawa, H.Tagawa, Y.Muroga
and S.Yano
Investigation of Microphase Separation and Thermal
Properties of Noncrystalline Ethylene Ionomers. 2. IR,
DSC, and Dielectric Characterization
Macromolecules, **33** (2000) 9044.

R.Kato, M.Kataoka, T.Mikawa, R.Masui, N.Nakagawa,
H.Kamikubo and S.Kuramitsu
Observation of RecA Protein Monomer by Small Angle
X-Ray Scattering with Synchrotron Radiation
FEBS Lett., **482** (2000) 159.

T.Nishino, H.Iwasaki, M.Kataoka, M.Ariyoshi, T.Fujita,
H.Shinagawa and K.Morikawa
Modulation of RuvB Function by the Mobile Domain III
of the Holliday Junction Recognition Protein RuvA
J. Mol. Biol., **298** (2000) 407.

M.Hirai, S.Arai and H.Iwase
Concentration Dependence of Thermal Structural
Transition of Hen Egg-White Lysozyme under Constant
Heating Rate Studied by Time-resolved SAXS
Thermochimica Acta, **344** (2000) 95.

Y.Muroga
Applicability of Broken-Rodlike Chain Model to
Conformational Analysis of Polypeptide Chain
Biopolymers, **54** (2000) 58-63.

N.Hayashi, Y.Izumi, K.Titani and N.Matsushima
The Binding of Myristoylated N-Terminal Nonapeptide
from Neutron-Specific Protein CAP-23/NAP-22 to
Calmodulin does not Induce the Globular Structure
Observed for the Calmodulin-Nonmyristoylated Peptide
Complex
Protein Sci., **9** (2000) 1905.

G.Matsuda, T.Kanaya, M.Saito, K.Kaji and K.Nishida
Further Evidence of Spinodal Decomposition during
the Induction Period of Crystallization: Time-Resolved
Small-Angle X-Ray Scattering Prior to Crystallization of
Poly(ethylenenaphthalate)
Phys. Rev. B, **62** (2000) 1497.

K.Tashiro, S.Sasaki, Y.Ueno, A.Yoshioka and
M.Kobayashi
Crystallization Behavior of Polymers as Viewed from the
Molecular Level
Korea Polymer J., **8** (2000) 103.

T.Kawamura, K.Urayama and S.Kohjiya
Small Angle X-Ray Scattering Study on Role of Trapped
Entanglements in Structure of Swollen End-Linked
Poly(Dimethylsiloxane) Network
J. Chem. Phys., **112** (2000) 9105.

T.Fujiwara, M. Miyamoto, Y. Kimura, S. Sakurai
Intriguing Morphology Transformation due to the
Macromolecular Rearrangement of Poly(L-lactide)-
Block-Poly(oxyethylene): from Core-Shell Nanoparticles
to Band Structures via Fragments of Unimolecular Size
Polymer, **42** (2001) 1515.

Y.Izumi, S.Kuwamoto, Y.Jinbo and H.Yoshino
Increase in the Molecular Weight and Radius of Gyration
of Apocalmodulin Induced by binding of Target Peptide:
Evidence for Complex Formation
FEBS Lett., **495** (2001) 126.

11A

K.Amemiya, T.Yokoyama, Y.Yonamoto, M.Miyachi,
Y.Kitajima and T.Ohta
Observation of O K-Edge X-Ray Magnetic Circular
Dichroism of CO Adsorbed on an Ultrathin Co/Cu(001)
Film
Jpn. J. Appl. Phys., **39** (2000) L63.

F.Matsui, H.W.Yeom, K.Amemiya, K.Tono and T.Ohta
Reinterpretation of the Molecular O₂ Chemisorbate in
the Initial Oxidation of the Si(111) 7×7 Surface
Phys. Rev. Lett., **85** (2000) 630.

I.Shimoyama, G.Wu, T.Sekiguchi and Y.Baba
Evidence for the Existence of Nitrogen-Substituted Graphite Structure by Polarization Dependence of Near Edge X-Ray Absorption Fine Structure
Phys. Rev. B, **62** (2000) R6053.

J.Okamoto, H.Miyauchi, T.Sekine, T.Shidara, T.Koide, K.Amemiya, A.Fujimori, T.Saitoh, A.Tanaka, Y.Takeda and M.Takano
Magnetic Circular X-Ray Dichroism Study of $\text{La}_{1-x}\text{Sr}_x\text{CoO}_3$
Phys. Rev. B, **62** (2000) 4455.

T.Yokoyama, K.Amemiya, M.Miyachi, Y.Yonamoto, D.Matsumura and T.Ohta
K-Edge Magnetic Circular Dichroism of O in CO/Ni/Cu(001): Dependence on Substrate Magnetic Anisotropy and its Interpretation
Phys. Rev. B, **62** (2000) 14191.

Y.Yonamoto, T.Yokoyama, K.Amemiya, D.Matsumura and T.Ohta
Magnetism of an Ultrathin Mn Film on Co(100) and the Effect of Oxidation Studied by X-Ray Magnetic Circular Dichroism
Phys. Rev. B, **63** (2001) 214406.

11B

T.Ohta, T.Yokoyama, S.Terada, A.Imanishi and Y.Kitajima
Structures and Chemical Reactions of SO_2 Adsorbates Studied by Surface XAFS
Res. Chem. Intermed., **26** (2000) 29.

S.Nakai, Y.Megawa, F.Terasaki, C.Gang, T.Ohuchi, K.Obara, T.Kojima, H.Arai, T.Kashiwakura and Y.Kitajima
Resonant Emission Spectra of YF_3 , YCl_3 , Y_2O_3 and Y-Metal in the YL_{III} Absorption Region
Phys. Rev. B, **61** (2000) 7433.

O.Endo, H.Kondoh, Y.Yonamoto, T.Yokoyama and T.Ohta
The Effect of a Water Overlayer on the Chlorine-Chemisorbed Ag(100) Surface Studied by Cl K-Edge X-Ray Absorption Fine Structure
Surf. Sci., **463** (2000) 135.

P.V.Kamat, K.Murakoshi, Y.Wada and S.Yanagida
Semiconductor Nanoparticles
Handbook of Nanostructured Materials and Nanotechnology, **6** (2000) 291.

T.Yoshida, H.Yoshida, T.Hara, T.Ii, T.Okada and T.Tanabe
XAFS Study on Silica Glasses Irradiated in a Nuclear Reactor
Nucl. Instr. Meth. Phys. Res. B, **166/167** (2000) 483.

J.-H.Choy, J.-Y.Kim, S.-H.Hwang, S.-J.Kim and G.Demazeau
Soft XAFS Study on the 4d Electronic Structure of Ruthenium in Complex Perovskite Oxide
International J. Inorg. Mater., **2** (2000) 61.

J.-Y.Kim, S.-H.Hwang, S.-J.Kim, G.Demazeau, J.-H.Choy and H.Shimada
4d Electronic Structrue Analysis of Ruthenium in the Perovskite Oxides by Ru K- and L-Edge XAS
J. Synchrotron Rad., **8** (2001) 722.

S.Tohno, J.Kawai and Y.Kitajima
Identification of the Chemical States of Phosphorus in Atmospheric Aerosols by XANES Spectrometry
J. Synchrotron Rad., **8** (2001) 958.

11C

T.Noda, M.Yamazaki, K.Ozawa, K.Edamoto and S.Otani
Oxygen Adsorption on a ZrC(111) Surface: Angle-Resolved Photoemission Study
Surf. Sci., **450** (2000) 27.

K.Ozawa, T.Noda, T.Nakane, M.Yamazaki, K.Edamoto, S.Tanaka and S.Otani
Potassium Adsorption on the Polar ZrC(111) Surface: Photoemission Spectroscopy Study
Surf. Sci., **446** (2000) 229.

Y.Takakuwa
Elementary Process of the Photo-Induced Reaction on Solid Surfaces
Tohoku Univ. RISM, **49** (2000) 9. (*in Japanese*).

Y.Okamoto, M.Yoshikawa, N.Yamaguchi, C.Watanabe, T.Tamano, E.Kawamori, T.Ito, Y.Watanabe and K.Yatsu
Absolute Calibration of Space- and Time-Resloving Flat-Field Vacuum Ultraviolet Spectrograph for Plasma Diagnostics
Jpn. J. Appl. Phys., **39** (2000) 3609.

K.Edamoto, M.Yamazaki, T.Noda, K.Ozawa and S.Otani
Hydrogen Adsorption on a HfC(111) Surface: Angle-Resolved Phtoemission Study
J. Elec. Spec. Relat. Phenom., **114** (2001) 495.

11D

Y.Takakuwa
Elementary Process of the Photo-Induced Reaction on Solid Surfaces
Tohoku Univ. RISM, **49** (2000) 9. (*in Japanese*).

12B

T.Imajo, K.Yoshino, J.R.Esmond, W.H.Parkinson, A.P.Thorne, J.E.Murray, R.C.M.Learner, G.Cox, A.S.-C.Cheung, K.Ito and T.Matsui
The Application of a VUV Fourier Transform Spectrometer and Synchrotron Radiation Source to Measurements of: II. The $\delta(1,0)$ band of NO
J. Chem. Phys., **112** (2000) 2251.

K.Yoshino, A.P.Thorne, K.Ito, T.Matsui, K.W.-S.Leung, A.S.-C.Cheung and T.Imajo
The Application of a VUV-FT Spectrometer and Synchrotron Radiation Source to Measurements of the NO and O₂ Bands at 295 K
Phys. Chem. Earth(C), **25** (2000) 199.

G.Stark, K.Yoshino, K.P.Huber, M.-C.Chan, P.L.Smith and K.Ito
Line Oscillator Strength Measurements in the 0-0 Band of the $c'_4\ ^1\Sigma_u^+ \leftarrow X^1\Sigma_g^+$ Transition of N₂
Astrophys. J., **531** (2000) 321.

C.Y.R.Wu, T.Hung, D.L.Judge, and T.Matsui
High-Temperature High-Resolution Absorption Cross Section Measurements of O₂ in the 83.4 nm Region
J. Geophysics Res., **103** (2000) 5329.

K.Maeda, K.Ueda, M.Aymar, T.Matsui, H.Chiba and K.Ito
Absolute Photoionization Cross Sections of the Ba Ground State in the Autoionization Region: II. 221-209nm
J. Phys. B: At. Mol. Opt. Phys., **33** (2000) 1943.

12C

Y.Takahashi, H.Shimizu, A.Usui, H.Kagi and M.Nomura
Direct Observation of Tetravalent Cerium in Ferromanganese Nodules and Crusts by X-Ray-Absorption Near-Edge Structure (XANES)
Geochimica et Cosmochimica Acta, **64** (2000) 2929.

H.Ofuchi, M.Tabuchi, A.G.Banshchikov, N.S.Sokolov, N.L.Yakovlev and Y.Takeda
Fluorescence EXAFS Study on Local Structures around Mn Atoms in MnF₂-CaF₂ Superlattices and Double Hetero-Structures on Si(111)
Appl. Surf. Sci., **117** (2000) 781.

M.Shirai, M.Arai and K.Murakami
Aggregation and Role of Ion-Exchanged Nickel Species during Pyrolysis of Brown Coal: Influence of Extent of Metal Loading
Energy and Fuels, **14** (2000) 1038.

P.V.Kamat, K.Murakoshi, Y.Wada and S.Yanagida
Semiconductor Nanoparticles
Handbook of Nanostructured Materials and Nanotechnology, **6** (2000) 291.

X.Guo and K.Sakurai
Formation of Yttrium Aluminum Perovskite and Yttrium Aluminum Garnet by Mechanical Solid-State Reaction
Jpn. J. Appl. Phys., **39** (2000) 1230.

M.Matsuura, A.Ashfaq, K.Konno and M.Sakurai
Preferential Site Occupancy of Zr in Nd₂Fe₁₄B Based Magnets; Effects of Concentration and HDDR Process
Proc. 16th Int. Workshop on Rare-Earth Magnets, **2** (2000) 872.

A.Ashfaq, M.Matsuura and M.Sakurai
XAFS Study of Zr Site Preference for Nd₁₆Fe_{75.5}Zr_{0.5}B₈ in Disproportionated, Partially/Fully Recombined States of HDDR Process
J. Mag. Mag. Mater., **212** (2000) 368.

T.Hayakawa, K.Nagaya, I.Yamamoto, Y.Ohmasa, M.Yao and M.Nomura
Photoelectron Photoion Coincidence Measurements of Selenium Clusters Beam I. Evidence for the Coulomb Explosion
J. Phys. Soc. Jpn., **69** (2000) 2039.

M.Kiguchi, T.Yokoyama, D.Matsumura, H.Kondoh, O.Endo and T.Ohta
Surface Structures and Thermal Vibrations of Ni and Cu Thin Films Studied by Extended X-Ray-Absorption Fine Structure
Phys. Rev. B, **61** (2000) 14020.

H.Ofuchi, M.Tabuchi, A.G.Banshchikov, N.S.Sokolov, N.L.Yakovlev and Y.Takeda
Fluorescence EXAFS Study on Local Structures around Mn Atoms in MnF₂-CaF₂ Superlattices and Double Hetero-Structures on Si(111)
Appl. Surf. Sci., **159-160** (2000) 220.

H.Ofuchi, T.Kubo, M.Tabuchi, K.Takahei and Y.Takeda
Local Structures around Er Atoms in GaAs:Er,O Studied by Fluorescence EXAFS and Photoluminescence Microelectronic Engineering, **51-52** (2000) 715.

K.Asakura
Fluorescence XAFS
Shokubai, **42** (2000) 328. (*in Japanese*).

K.Asakura
Polarization-Dependent Total Reflection Fluorescence EXAFS Study on the 3-Dimensional Structural Analysis of Surface Active Sites
Hyomen Kagaku, **21** (2000) 294. (*in Japanese*).

T.Moriga, K.Okamura, K.Watanabe and I.Nakabayashi
Effects of Charge/Discharge of Li_{1-x}Ni_{1-y}Mn_yO₂ on their Crystal Structures and Electronic States
Soc. Mater. Sci. Jpn., **6** (2000) 221.

Y.Inada, Y.Nakano, M.Inamo, M.Nomura and S.Funahashi
Structural Characterization and Formation Mechanism of Sitting-Atop (SAT) Complexes of 5,10,15,20-Tetraphenylporphyrin with Divalent Metal Ions.
Structure of the Cu(II)-SAT Complex as Determined by Fluorescent Extended X-Ray Absorption Fine Structure
Inorg. Chem., **39** (2000) 4793.

T.Hayakawa, K.Nagaya, K.Hamada, Y.Ohmasa and M.Yao
Photoelectron Photoion Coincidence Measurements of Selenium Cluster Beam. II. Photon Energy Dependence J. Phys. Soc. Jpn., **69** (2000) 2850.

Y.Takahashi, H.Shimizu, H.Yoshida, H.Kagi, A.Usui and M.Nomura
A New Method for the Determination of Ce(III)/Ce(IV) Ratios in Geological Materials; Application for Weathering, Sedimentary, and Diagenetic Processes Earth and Planetary Sci. Lett., **182** (2000) 201.

M.Itakura, M.Nishimura, S.Takase, A.Ako, N.Kuwano and K.Oki
High Pressure Ce-L3 XANES Measurement Using an Asymmetrical Diamond Anvil Cell
Science and Technology of High Pressure, edited by Murli H. Manghnani, William J. Nellis and Malcolm, **1** (2000) 479.

K.Fukumi, A.Chayahara, K.Kakono, H.Kageyama, T.Akai, H.Mizoguchi, N.Kitamura, M.Makihara, Y.Horino and K.Fujii
Coordination Structures of Implanted Fe, Co, and Ni Ions in Silica Glass by X-Ray Absorption Fine Structure Spectroscopy
J. Mater. Res., **16** (2001) 155.

W.J.Chun, Y.Tanizawa, T.Shido, Y.Iwasawa, M.Nomura and K.Asakura
Development of an in-situ Polarization-Dependent Total Reflection Fluorescence XAFS Measurement System J. Synchrotron Rad., **8** (2001) 168.

O.Kamishima, K.Ohta, Y.Chiba and T.Hattori
Local Structure Around Yb in $\text{SrZr}_{1-x}\text{Yb}_x\text{O}_3$
J. Phys. : Condensed Matt., **13** (2001) 2455.

T.Seto, M.Kawa, K.Sugiyama and M.Nomura
XAFS Studies of Tb or Eu Cored Dendrimer Complexes with Various Properties of Luminescence
J. Synchrotron Rad., **8** (2001) 710.

M.Yao, T.Hayakawa, K Nagaya, K.Hamada, Y.Ohmasa and M.Nomura
A New Method for the Size-Selective EXAFS of Neutral Free Clusters
J. Synchrotron Rad., **8** (2001) 542.

W.-J.Chun, Y.Tanizawa, T.Shido, Y.Iwasawa, M.Nomura and K.Asakura
Development of an *in situ* Polarization-Dependent Total-Reflection Fluorescence XAFS Measurement System J. Synchrotron Rad., **8** (2001) 168.

Y.Tanizawa, W.-J.Chun, T.Shido, K.Asakura and Y.Iwasawa
Three-Dimensional Analysis of the Local Structure of Cu on $\text{TiO}_2(110)$ by *in situ* Polarization-Dependent Total-Reflection Fluorescence XAFS
J. Synchrotron Rad., **8** (2001) 508.

13B2

K.Tamura, H.Oyanagi, T.Kondo, M.Koinuma and K.Uosaki
Structural Study of Electrochemically Deposited Cu on p-GaAs(100) in H_2SO_4 Solution by In Situ Surface-Sensitive X-Ray Absorption Fine Structure Measurements
J. Phys. Chem. B, **104** (2000) 9017.

13C

E.Morikawa, V.Saile, K.K.Okudaira, Y.Azuma, K.Meguro, Y.Harada, K.Seki, S.Hasegawa and N.Ueno
Pendant Group Orientation of Poly(2-vinylnaphthalene) Thin Film Surface Studied by Near-Edge X-Ray Absorption Fine Structure Spectroscopy (NEXAFS) and Angle-Resolve Ultraviolet Photoelectron Spectroscopy(ARUPS),
J. Chem. Phys., **112** (2000) 10476.

H.Ikeura-Sekiguchi, T.Sekiguchi, M.Imamura, N.Matsubayashi, H.Shimada and Y.Baba
Site-Specific Ion Desorption from Condensed C- and N-Deuterated Formamide Near the Carbon and Nitrogen K-Edge
Surf. Sci., **454-456** (2000) 407.

14A

H.Kitahara-Eba, N.Ishizawa, F.Marumo and Y.Noda
Synchrotron X-Ray Study of the Monoclinic High-pressure Structure of AgGaS_2
Phys. Rev. B, **61** (2000) 3310.

K.Asakura, W.-J.Chun and Y.Iwasawa
Polarization-dependent Total-reflection Fluorescence EXAFS Study about Active Structures on Single Crystal Oxides as Model Catalyst Surfaces
Topics in Catal., **10** (2000) 209.

N.Ishizawa
Precise Structure Analysis under Virtually Extinction-free Conditions using Small Crystals
J. Cryst. Soc. Jpn., **42** (2000) 155.

P.V.Kamat, K.Murakoshi, Y.Wada and S.Yanagida
Semiconductor Nanoparticles
Handbook of Nanostructured Materials and Nanotechnology, **6** (2000) 291.

S.Kishimoto, Y.Yoda, M.Seto, Y.Kobayashi, S.Kitao, R.Haruki, T.Kawauchi, K.Fukutani and T.Okano
Observation of Nuclear Excitation by Electron Transition in ^{197}Au with Synchrotron X Rays and an Avalanche Photodiode
Phys. Rev. Lett., **85** (2000) 1831.

K.Asakura
Polarization-Dependent Total Reflection Fluorescence EXAFS Study on the 3-Dimensional Structural Analysis of Surface Active Sites
Hyomen Kagaku, **21** (2000) 294. (*in Japanese*).

F.Marumo, Y.Tabira, M.Okui, N.Ishizawa and O.Tamada
Electron Density Distribution in Fayalite, Fe_2SiO_4
Proc. of Int. Workshop on the Use of High-Precision,
High-Resolution Anal. Meth. of Elec. States, (2000) 76.

O.Tamada, F.Marumo, M.B.Boisen and G.V.Gibbs
Molecular Orbital Study for Electron Density
Distributions of Co-Olivine
Proc. of Int. Workshop on the Use of High-Precision,
High-Resolution Anal. Meth. of Elec. States, (2000) 20.

W.J.Chun, K.Asakura and Y.Iwasawa
Anisotropic Ordering of Mo Species Deposited on
 $TiO_2(110)$ Characterized by Polarization-Dependent
Total Reflection Fluorescence EXAFS (PTRF-EXAFS)
Catal. Today, **66** (2001) 97.

14B

T.Takeda, A.Momose, K.Hirano, S.Haraoka,
T.Watanabe and Y.Itai
Human Carcinoma: Early Experience with Phase-
Contrast X-ray CT with Synchrotron Radiation-
Comparative Specimen Study with Optical Microscopy
Radiology, **214** (2000) 298.

M.Ando, J.Chen, K.Hyodo, K.Mori, H.Sugiyama,
D.Xian and X.Zhang
Nondestructive Visual Search for Fossils in Rock Using
X-Ray Interferometry Imaging
Jpn. J. Appl. Phys., **39** (2000) 1009.

S.Nakatani, S.Kusano, T.Takahashi, K.Hirano, S.Koh,
T.Kondo and R.Ito
Study of Sublattice Inversion in GaAs/Ge/GaAs(001)
Crystal by X-Ray Diffracton
Appl. Surf. Sci., **159** (2000) 256.

A.Momose
Phase Measurement and Imaging Using X-Ray
Interferometer
Solid State Physics, **35** (2000) 253. (*in Japanese*).

A.Momose
Phase-Contrast X-Ray Imaging
Jpn. J. Opt., **29** (2000) 287. (*in Japanese*).

T.Takeda, A.Momose, Q.Yu, J.Wu, K.Hirano and Y.Itai
Phase-Contrast X-Ray Imaging with a Large Monolithic
X-Ray Interferometer
J. Synchrotron Rad., **7** (2000) 280.

A.Momose
Novel X-Ray Imaging Techniques Using X-Ray Wave
Property
Jpn. J. Radiological Technology, **56** (2000) 985. (*in
Japanese*).

A.Momose
Phase-Contrast X-Ray Imaging
Oyo Butsuri, **69** (2000) 424. (*in Japanese*).

A.Momose, T.Takeda and Y.Itai
Blood Vessels: Depiction at Phase-Contrast X-Ray
Imaging without Contrast Agents in the Mouse and Rat-
Feasibility Study
Radiology, **217** (2000) 593.

M.Ando, H.Sugiyama, X.Zhang, K.Hyodo,
A.Makusimenko and W.Pattanasirivisawa
An X-Ray Trichrome Imaging 'Trinity': Absorption,
Phase-Interference and Angle-Resolved Contrast
Jpn. J. Appl. Phys., **40** (2001) L298.

14C

H.Fukui, O.Ohtaka, T.Katsura, K.Funakoshi, W.Utsumi
and T.Kikegawa
Phase Relations of $Ca(OH)_2$ under High-Temperature
and High-Pressure Conditions
Sci. and Tech. of High Press. Proc. of AIRAPT-17,
(2000) 554.

A.Suzuki, E.Ohtani, H.Morishima, T.Kubo, Y.Kanbe,
T.Kondo, T.Okada, H.Terasaki, T.Kato and T.Kikegawa
In Situ Determination of the Phase Boundary between
Wadsleyite and Ringwoodite in Mg_2SiO_4
Geophysical Res. Lett., **27** (2000) 803.

Y.Fukai, Y.Ishii, Y.Goto and K.Watanabe
Formation of Superabundant Vacancies in Pd-H Alloys
J. Alloys Compounds, **313** (2000) 121.

T.Horikawa, T.Kinoshita, K.Suito and A.Onodera
Compressibility Measurement of C_6O Using Synchrotron
Radiation
Solid State Comm., **114** (2000) 121.

K.Oguri, N.Funamori, T.Uchida, T.Yagi, N.Miyajima
and K.Fujino
Post-Garnet Transition in a Natural Pyrope: a Multi-
Anvil Study Based on *in situ* X-Ray Diffraction and
Transmission Electron Microscopy
Phys. Earth Planet Inter., **122** (2000) 175.

K.Tsuji and M.Ohtani
Structure of Liquid Iodine under Pressure
Proc. of AIRAPT-17, Hawaii, 1999, (2000) 514.

M.Ohtani, K.Tsuji, N.Hosokawa and N.Funamori
Structure of Liquid Germanium under Pressure
Proc. of AIRAPT-17, Hawaii, 1999, (2000) 499.

K.Kusaba
Second-Order Phase Transition of FeS under High
Pressure and Temperature
J. Cryst. Soc. Jpn., **43** (2001) 180-184. (*in Japanese*).

15A

M.Kojima, M.Tanokura, M.Maeda, K.Kimura,
Y.Amemiya, H.Kihara and K.Takahashi
pH-Dependent Unfolding of Aspergilloperpsin II Studied
by Small-Angle X-Ray Scattering
Biochem., **39** (2000) 1364.

K.Nishikawa and T.Morita
Inhomogeneity of molecular distribution in supercritical fluids
Chem. Phys. Lett., **316** (2000) 238.

T.Morita, K.Kusano, H.Ochiai, K.Satow and K.Nishikawa
Study of inhomogeneity of supercritical water by small-angle x-ray scattering
J. Chem. Phys., **112** (2000) 4203.

T.Adachi
A New Method for Determining the Phase in the X-Ray Diffraction Structure Analysis of Phosphatidylcholine/Alcohol
Chem. Phys. of Lipids, **107** (2000) 93.

A.A.Timchenko, B.S.Melnik, H.Kihara, K.Kimura and G.V.Semisotnov
GroES Co-Chaperonin Small-Angle X-Ray Scattering Study Shows Ring Orifice Increase in Solution
FEBS Lett., **471** (2000) 211.

T.Okuno, Y.Masumoto, M.Ikezawa, T.Ogawa and A.A.Lipovskii
Size-Dependent Picosecond Energy Relaxation in PbSe Quantum Dots
Appl. Phys. Lett., **77** (2000) 504.

K.Sakurai, S.Shinkai, M.Ueda, S.Sakurai, S.Nomura, W.J. MacKnight, D.J. Lohse
Preferential Orientation of Crystallites Spatially Confined in Lamellar Microdomains of Polyethylene-Block-[Atactic poly(propylene)]
Macromolecular Rapid Comm., **21** (2000) 1140.

G.Shin, N.Sakamoto, K.Saijo, S.Suehiro, T.Hashimoto, K.Ito and Y.Amemiya
Time-Resolved SAXS Studies of a Sphere-Forming Block Copolymer under Large Oscillatory Shear Deformation
Macromolecules, **33** (2000) 9002.

K.Tashiro, S.Sasaki, Y.Ueno, A.Yoshioka and M.Kobayashi
Cystallization Behavior of Polymers as Viewed from the Molecular Level
Korea Polymer J., **8** (2000) 103.

H.Takahashi, A.Matsuo and I.Hatta
Effects of Chaotropic and Kosmotropic Solutes on the Structure of Lipid Cubic Phase: Monoolein-Water Systems
Mol. Cryst. Liq. Cryst., **347** (2000) 231.

M.Kataoka and H.Kamikubo
Structures of Photointermediates and their Implications for the Proton Pump Mechanism
Biochim. Biophys. Acta, **2460** (2000) 166.

H.Seto, D.Okuhara, Y.Kawabata, T.Takeda, M.Nagao, J.Suzuki, H.Kamikubo and Y.Amemiya
Pressure and Temperature Effects on the Phase Transition from Dense Droplet to a Lamellar Structure in a Ternary Microemulsion
J. Chem. Phys., **112** (2000) 10608.

O.Gronwald, K.Sakurai, R.Luboradzki, T.Kimura and S.Shinkai
Further Evidence for the Gelation Ability-Structure Correlation in Sugar-Based Gelators
Carbohydrate Research, **331** (2001) 307.

S.Sakurai, S.Aida, S.Okamoto, T.Ono, K.Imaizumi and S.Nomura
Preferential Orientation of Lamellar Microdomains Induced by Uniaxial Stretching of Cross-Linked Polystyrene-Block-Polybutadiene-Block-Polystyrene Triblock Copolymer
Macromolecules, **34** (2001) 3672.

15B1

K.Mizuno, S.Nagai, A.Tamiya, Y.Noda, K.Ito, M.Iwami, M.Kunimoto and T.Kino
Indistinct Defect Images in Topographs of Nearly Perfect Aluminum Crystals Just Prior to Appearance of Dislocation Loops
J. Phys. Soc. Jpn., **69** (2000) 1271.

T.Fukamachi, R.Negishi and T.Kawamura
Resonant Dynamical Diffraction
Rigaku-Denki J., **31** (2000) 1. (*in Japanese*).

15B2

W.Yashiro and T.Takahashi
X-Ray Diffraction from an Atomic Plane
Acta. Crystlogra., **A56** (2000) 163.

15C

Y.Kudo, K.-Y.Liu, S.Kawada, A.Kashiwagi and K.Hirano
Determination of the Density and the Thickness of SiO₂ Films using Extremely Asymmetric X-Ray Diffraction
Jpn. J. Appl. Phys., **39** (2000) 1409.

Y.Kudo, K.Liu, S.Kawada and K.Hirano
Elimination of Extrinsinc Components Overlapping Lattice Distortion Variations of a Silicon Single Crystal Obtained by Double-Crystal X-Ray Topography
J. Appl. Cryst., **33** (2000) 226.

S.Nakatani, S.Kusano, T.Takahashi, K.Hirano, S.Koh, T.Kondo and R.Ito
Study of Sublattice Inversion in GaAs/Ge/GaAs(001) Crystal by X-Ray Diffraction
Appl. Surf. Sci., **159** (2000) 256.

J.Yoshimura
Non-Projectiveness of X-Ray Pendellösung-Fringed Diffraction Images
J. Synchrotron Rad., **7** (2000) 374.

K.Mizuno, Y.Noda, H.Okamoto, X.Zhang, P.Prete and N.Lovergne
Assessment of MOCVD-Grown ZnSe Epilayers on GaAs by Means of Synchrotron Radiation Topography
Trans. Mater. Res. Soc. Jpn., **26(2)** (2001) 779.

16A1

N.Watanabe, H.Hayashi and Y.Udagawa
Inelastic X-Ray Scattering Study on Molecular Liquids
J. Phys. Chem. Solids, **61** (2000) 407.

16A2

K.Hirota, N.Oumi, T.Matsumura, H.Nakao, Y.Wakabayashi, Y.Murakami and Y.Endoh
Direct Observation of Antiferroquadrupolar Ordering: Resonant X-Ray Scattering Study of DyB₂C₂
Phys. Rev. Lett., **84** (2000) 2706.

Y.Wakabayashi, Y.Murakami, I.Koyama, T.Kimura, Y.Tokura, Y.Moritomo, K.Hirota and Y.Endoh
Orbital and Charge Ordering in LaSr₂Mn₂O₇ Observed by Resonant X-Ray Scattering
J. Phys. Soc. Jpn., **69** (2000) 2731.

H.Nakao, K.Ohwada, N.Takesue, Y.Fujii, M.Isobe, Y.Ueda, M.V.Zimmermann, J.P.Hill, D.Gibbs, J.C.Woicik, I.Koyama and Y.Murakami
X-Ray Anomalous Scattering Study of a Charge-Ordered State in NaV₂O₅
Phys. Rev. Lett., **85** (2000) 4349.

16B

T.Sekiguchi, H.Ikeura-Sekiguchi and Y.Baba
Site-Specific Fragmentation of Acetone Adsorbates on Si(100) in the Carbon 1s Absorption Edge
Surf. Sci., **454-456** (2000) 363.

Y.Hikosaka, F.Penent, P.Lablanquie, R.Hall and K.Ito
An Auger Electron-Threshold Photoelectron Coincidence Spectrometer for Studies of Atomic and Molecular Dications
Meas. Sci. Technol., **11** (2000) 1697.

T.Kiyokura, F.Maeda, Y.Watanabe, Y.Iketaki, Y.Horikawa, M.Oshima, E.Shigemasa and A.Yagishita
Throughput Measurement of a Multilayer-Coated Schwarzschild Objective Using Synchrotron Radiation
Optical Rev., **7** (2000) 576.

P.Lablanquie, S.Sheinerman, F.Penent, R.I.Hall, M.Ahmad, Y.Hikosaka and K.Ito
Dynamics and Post-Collision Interaction Effects in Two Electron Decay from Xe 4d Hole
Phys. Rev. Lett., **87** (2001) 053001.

17A

N.Awaji
Grazing Incidence X-Ray Reflectivity and CTR Scattering Study of Ultra-Thin Silicon Dioxide Films
J. Jpn. Soc. Synchrotron Rad. Res., **13** (2000) 29. (*in Japanese*).

18A

S.Ichikawa, N.Sanada, S.Mochizuki, Y.Esaki, Y.Fukuda, M.Shimomura, T.Abukawa and S.Kono
The Structure of an InAs(111)-(2×2)S Surface Studied by Scanning Tunneling Microscopy, Photoelectron Spectroscopy, and Photoelectron Diffraction
Phys. Rev. B, **15** (2000)

S.Ichikawa, N.Sanada, M.Shimomura, T.Abukawa, S.Kono and Y.Fukuda
Electronic States for InAs(111)A-(2×2)S Surface Studied by Angle-Resolved Photoemission Spectroscopy
Surf. Sci., (2000)

18B

K.Fukuda, H.Mizuno, H.Atoda and T.Morita
Crystal Structure of Flavocetin-A, a Platelet Glycoprotein Ib-Binding Protein, Reveals a Novel Cyclic Tetramer of C-type Lectin-like Heterodimers
Biochem., **39** (2000) 1915.

S.Goda, K.Takano, Y.Yamagata, Y.Katakura and K.Yutani
Effect of Extra N-Terminal Residues on the Stability and Folding of Human Lysozyme Expressed in *Pichia pastoris* Protein Engineering, **13** (2000) 299.

T.Koshiba, M.Yao, Y.Kobashigawa, M.Demura, A.Nakagawa, I.Tanaka, K.Kuwajima and K.Nitta
Structure and Thermodynamics of the Extraordinarily Stable Molten Globule State of Canine Milk Lysozyme
Biochem., **39** (2000) 3248.

T.Shimura, T.Hosoi and M.Umeno
Analysis of Ordered Structure of Buried Oxide Layers in SIMOX Wafers
Proc. of the 19th Inter. Sympo. Silicon-on-Insulator Tech. and Devices, **99-3** (2000) 155.

T.Shimura, T.Hosoi and M.Umeno
Characterization of SOI Wafers by X-Ray CTR Scattering
J. Cryst. Growth, **210** (2000) 98.

T.Shimura, T.Hosoi and M.Umeno
Ordered SiO₂ in the Buried Oxide of SIMOX SOI Wafers
Proc. of the 4th Symp. on Atomic-scale Surface and Interface Dynamics, **4** (2000) 395.

T.Shimura, T.Hosoi and M.Umeno
The Crystalline SiO₂ Phase in the BOX Layers of SIMOX Wafers
The 3rd SANKEN Int. Symp. on Advanced Nanoelectronics: Devices, Materials, and Computing, **57** (2000) 128.

T.Nogi, M.Kobayashi, T.Nozawa and K.Miki
Crystallization and Preliminary Crystallographic Analysis of the High-Potential Iron-Sulfur Protein from *Thermochromatium Tepidum*
Acta Cryst., **D56** (2000) 656.

Y.Ohnishi, T.Senda, N.Nandhagopal, K.Sugimoto, T.Shioda, Y.Nagai and Y.Mitsui
Crystal Structure of Recombinant Native SDF-1a with Additional Mutagenesis Studies - An Attempt for More Comprehensive Interpretation of Accumulated Structure-activity Relationship Data -
J. Interferon and Cytokine Res., **20** (2000) 691.

K.Yamamoto, M.Kusunoki, I.Urabe, S.Tabata and S.Osaki
Crystallization and Preliminary X-Ray Analysis of Glucose Dehydrogenase from *Bacillus Megaterium* IWG3
Acta Crystallogr. D, **56** (2000) 1443.

K.Ihara, T.Shimizu, R.Maesaki, K.Okada, M.Amano, K.Kaibuchi and T.Hakoshima
Crystallization and Preliminary Crystallographic Analysis of the Rho-Binding Domain of Bovine Rho-Kinase
Acta Crystlogra. D, **56** (2000) 1042.

K.Takano, K.Tsuchimori, Y.Yamagata and K.Yutani
Contribution of Salt Bridges Near the Surface of a Protein to the Conformational Stability
Biochem., **39** (2000) 12375.

M.Sugahara, T.Mikawa, R.Kato, K.Fukuyama, T.Kumasaka, M.Yamamoto, Y.Inoue and S.Kuramitsu
Crystallization and Preliminary X-Ray Crystallographic Studies of *Thermus thermophilus* HB8 MutM Protein Involved in Repairs of Oxidative DNA Damage
J. Biochem., **127** (2000) 9.

M.Sugahara, T.Mikawa, T.Kumasaka, M.Yamamoto, R.Kato, K.Fukuyama, Y.Inoue and S.Kuramitsu
Crystal Structure of a Repair Enzyme of Oxidatively Damaged DNA, MutM (Fpg), from an Extreme Thermophile, *Thermus thermophilus* HB8
EMBO J., **19** (2000) 3857.

N.Tanaka, T.Nonaka, K.T.Nakamura and A.Hara
SDR: Structure, Mechanism of Action, and Substrate Recognition
Current Organic Chemistry, **4** (2000) 945.

T.Hori, H.Moriyama, J.Kawaguchi, Y.H.Iwasaki, T.Oshima and N.Tanaka
The Initial Step of the Thermal Unfolding of 3-isopropylmalate Dehydrogenase Detected by the Temperature-Jump Laue Method
Protein Engineering, **13** (2000) 527.

J.J.Song, C.S.Lee, Y.S.Kim, J.J.Kim, Y.J.Im, H.H.Kim, S.J.Yoo, I.S.Seong, C.H.Chung and S.H.Eom
Crystallization and Preliminary X-Ray Crystallographic Studies of HslU Mutant in *Escherichia coli*
Bull. Korean Chem. Soc., **21** (2000) 747.

Y.J.Im, C.M.Park, J.I.Kim, S.S.Yang, J.G.Kang, S.H.Rho, J.I.Kim, W.K.Song, P.S.Song and S.H.Eom
Crystallization and Preliminary X-Ray Crystallographic Studies of Response Regulator for Cyanobacterial Phytochrome, Rcp1
Acta Cryst., **D56** (2000) 1446.

M.T.Hossain, T.Hikima, M.Tsunoda, T.Chatake, Y.Ueno, A.Matsuda and A.Takenaka
X-Ray Analyses of Two DNA Dodecamers Containing N4-Methoxycytosine Paired with Adenine or Guanine Nucleic Acids Symposium Series, **44** (2000) 239.

J.Kondo and A.Takenaka
Crystallization of the Most Active RNA-Cleaving Deoxyribozyme
Nucleic Acids Symposium Series, **44** (2000) 201.

T.Nogi, I.Fathir, M.Kobayashi, T.Nozawa and K.Miki
Crystal Structures of Photosynthetic Reaction Center and High-Potential Iron-Sulfur Protein from *Thermochromatium Tepidum*; Thermostability and Electron Transfer
Proc. Natl. Acad. Sci. USA, **97** (2000) 13561.

M.Tsunoda, N.Karino, Y.Ueno, A.Matsuda and A.Takenaka
Crystallization and Preliminary X-Ray Analysis of a DNA Dodecamer Containing 2'-deoxy-5-formyluridine; What is the Role of Magnesium Cation in Crystallization of Dickerson-Type DNA Dodecamers?
Acta Cryst., **D57** (2001) 345.

S.Sogabe and K.Miki
Crystal Structure of the Oxidized Cytochrome c₂ from *viridis*
FEBS Lett., **491** (2001) 174.

M.Fujihashi, Y.-W.Zhang, Y.Higuchi, X.-Y.Li, T.Koyama and K.Miki
Crystal Structure of Cis-Prenyl Chain Elongating Enzyme, Undecaprenyl Diphosphate Synthase
Proc. Natl. Acad. Sci. USA, **98** (2001) 4337.

S.Ito, S.Fushinobu, I.Yoshioka, S.Koga, H.Matsuzawa and T.Wakagi
Structural Basis for the ADP-Specificity of a Novel Glucokinase from a Hyperthermophilic Archaeon
Structure with Folding and Design, **9** (2001) 205.

Y.Yamagata, K.Ogasahara, Y.Hioki, S.J.Lee, A.Nakagawa, H.Nakamura, M.Ishida, S.Kuramitsu and K.Yutani
Entropic Stabilization of the Tryptophan Synthase α-Subunit from a Hyperthermophile, *Pyrococcus furiosus*
J. Biol. Chem., **276** (2001) 11062.

K.Takano, Y.Yamagata and K.Yutani
Contribution of Polar Groups in the Interior of a Protein to the Conformational
Biochem., **40** (2001) 4853.

K.Yamamoto, G.Kurisu, M.Kusunoki, S.Tabata, I.Urabe and S.Osaki
Crystal Structure of Glucose Dehydrogenase from *Bacillus Megaterium*IWG3 at 1.7 ÅResolution
J. Biochem., **129** (2001) 303.

M.Sawada, K.Hayashi and A.Kakizaki
Electronic Structure and Magnetic Anisotropy of Co/Au(111): A Spin-resolved Photoemission Spectroscopy Study
Phys. Rev. B, **63** (2001) 195407.

18C

A.Fujiwara, K.Ishii, T.Watanuki, H.Suematsu, H.Nakao, K.Ohwada, Y.Fujii, Y.Murakami, T.Mori, H.Kawada, T.Kikegawa, O.Shimomura, T.Matsubara, H.Hanabusa, S.Daicho, S.Kitamura and C. Katayama
Synchrotron Radiation X-Ray Powder Diffractometer Using a Cylindrical Imaging Plate
J. Appl. Crystallogr., **33** (2000) 1241.

K.Takemura, N.E.Christensen, D.L.Novikov, K.Syassen, U.Schwarz and M.Hanflands
Phase Stability of Highly Compressed Cesium
Phys. Rev. B, **61** (2000) 14399.

T.Nagai, T.Hattori and T.Yamanaka
Compression Mechanism of Brucite: An Investigation by Structural Refinement under Pressure
American Mineralogist, **85** (2000) 760.

T.Nagai, T.Ito, T.Hattori and T.Yamanaka
Compression Mechanism and Amorphization of Portlandite, Ca(OH)₂: Structural Refinement under Pressure
Phys. Chem. Minerals, **27** (2000) 462.

K.Takemura
Evaluation of the Hydrostaticity of a Helium-Pressure Medium with Powder X-Ray Diffraction Techniques
J. Appl. Phys., **89** (2001) 662.

S.Ohta, T.Sekiya and S.Kurita
Pressure Dependence of Optical Properties of Anatase TiO₂ Single Crystal
Phys. Stat. Solidi (b), **223** (2001) 265.

H.Hirano, S.Uehara, A.Mori, A.Onodera, K.Takemura, O.Shimomura, Y.Akahama and H.Kawamura
High-Pressure Phase Transitions in AlSb
J. Phys. Chem. Solids, **62** (2001) 941.

19A

K.Hayashi, M.Sawada, A.Harasawa, A.Kimura and A.Kakizaki
Growth of Fe Films on Rh(001): A Photoemission Study
Appl. Surf. Sci., **169** (2001) 375.

M.Sawada, K.Hayashi and A.Kakizaki
Electronic Structure of Magnetic Ultrathin Films Co/Au(111) Studied by Spin-Resolved Photoelectron Spectroscopy
Appl. Surf. Sci., **169** (2001) 176.

19B

J.Kawai, Y.Mizutani, T.Sugimura, M.Sai, T.Higuchi, Y.Harada, Y.Ishiwata, A.Fukushima, M.Fujisawa, M.Watanabe, K.Maeda, S.Shin and Y.Gohshi
High Resolution Soft X-Ray Absorption Spectroscopy for the Chemical State Analysis of Mn
Spectrochim. Acta, **B55** (2000) 1385.

T.Higuchi, T.Tsukamoto, K.Kobayashi, S.Yamaguchi, Y.Ishiwata, T.Yokoya, M.Fujisawa and S.Shin
Electronic Structure in the Band Gap of Lightly-Doped SrTiO₃ by High Resolution X-Ray Absorption Spectroscopy
Phys. Rev. B, **61** (2000) in press.

T.Higuchi, T.Tsukamoto, N.Sata, M.Ishigame, K.Kobayashi, S.Yamaguchi, Y.Ishiwata, T.Yokoya, M.Fujisawa and S.Shin
Hole-State and Defect Structure of Proton Conductor SrTiO₃ Observed by High-Resolution X-Ray Absorption Spectroscopy
Solid State Ionics, **136** (2000) 261.

K.Maehashi, K.Kobayashi, T.Ota, H.Nakashima, Y.Ishiwata and S.Shin
Photoluminescence Core-Level Excitation of CdSe Quantum Dot Structures
J. Cryst. Growth, **214/215** (2000) 752.

T.Higuchi, T.Tsukamoto, Y.Tezuka, K.Kobayashi, S.Yamaguchi and S.Shin
Photoemission Study on Protonic Conductor CaZrO₃:Evidence of the Exchange Mechanism of Proton and Hole
Jpn. J. Appl. phys., **39** (2000) 133.

K.Inoue, A.Agui and S.Shin
Angular Dependence of Al-2p X-Ray Yield Spectra of GaAs/AlAs/GaAs Heterostructures
Jpn.J. Appl. Phys., **38** (2000) 572.

A.Kotani and S.Shin
Resonant Inelastic Scattering Spectra for Electrons in Solids
Rev. Modern Phys., **73** (2001) 203.

J.Labis, A.Ohi, T.Fujiki, M.Hirai, M.Kusaka and M.Iwami
Synchrotron Radiation Induced-Soft X-Ray Emission Spectroscopy (SXES) Study on Thermally-Annealed Ti/4H-SiC(0001)
7th Symposium on, (2001) 17.

T.Sugimura, J.Kawai, K.Maeda, A.Fukushima, S.Shin,
M.Motoyama and T.Nakajima
F K-Edge Soft X-Ray Absorption Spectroscopy
Adv. X-Ray Chem. Anal. Jpn., **32** (2001) 161. (*in Japanese*).
Proc. of the Workshop on Molecular Design of Metal Complexes, (2000) 63.

27A

Y.Baba and T.Sekiguchi
Desorption of Fragment Ions from Condensed Si(OCH₃)₄ by Localized Inner-Shell Electron Excitation at the Silicon, Oxygen, and Carbon *K* Edges
J. Vac. Sci. Technol. A, **18** (2000) 334.

H.Yamamoto and Y.Baba
Non-Destructive Depth Profile Analysis of SiO₂/Si Layer by High-Energy XPS
J. Surf. Anal., **7** (2000) 122.

I.Shimoyama, T.Sekiguchi and Y.Baba
X-Ray Photoelectron Spectroscopic Observation on the Formation of Carbon Nitride Thin Films Produced by Low-Energy Nitrogen Ion Implantation
Jpn. J. Appl. Phys., **39** (2000) 4540.

T.Uozumi, T.Okane, K.Yoshii, T.A.Sasaki and A.Kotani
Theoretical and Experimental Study of Resonant 3d X-Ray Photoemission and Resonant L₃M₄₅M₄₅ Auger Transition of PdO
J. Phys. Soc. Jpn., **69** (2000) 1226.

L.Ying, Y.Baba and T.Sekiguchi
The Oxidation Behaviors of Fe, Cr and Ni in O₂⁺-Ion Implanted Sus304 Stainless Steel by *in situ* SR-XPS I. Oxidation Behaviors
J. Chinese Soc. Corrosion Protection, **20** (2000) 321. (*in Chinese*).

L.Ying, Y.Baba and T.Sekiguchi
The Oxidation Behaviors of Fe, Cr and Ni in O₂⁺-Ion Implanted SUS304 Stainless Steel by *in Situ* SR-XPS II. Chemical State of Oxygen
J. Chin. Soc. Corrosion and Protection, **20** (2000) 331. (*in Chinese*).

T.Yoshida, T.Hara, T.Ii, H.Yoshida and T.Tanabe
XANES Analyses of Silicon Crystal Irradiated by Nitrogen/Oxygen Ions
J. Synchrotron Rad., **8** (2001) 755.

27B

M.Nagoshi, N.Okude and K.Kobayashi
TEY-XANES Spectra of Chromium Thin Films on Iron Measured with Grazing Incident Synchrotron Radiation
Surf. Interf. Anal., **30** (2000) 472.

S.Yamazaki, T.Matsui, T.Ohashi and Y.Arita
Defect Structures in Doped CeO₂ Studied by using EXAFS Spectrometry
Solid State Ionics, **136** (2000) 913.

T.Yaita
Coordination Chemistry of Actinides Utilizing by SOR and its Application for Development of Separation System
Proc. of the Workshop on Molecular Design of Metal Complexes, (2000) 63.

T.Yaita, S.Tachimori, N.M.Edelstein, J.J.Bucher, L.Rao, D.K.Shuh and P.G.Allen
EXAFS Studies of Americium(III)-Benzimidazole Complex in Ethanol
J. Synchrotron Rad., **8** (2001) 663.

H.Narita, T.Yaita, S.Suzuki, K.Takai, S.Tachimori and H.Motohashi
Structural Studies of Lanthanide(III) Complexes with Oxydiacetic Acid and Iminodiacetic Acid in Aqueous Solution by EXAFS
J. Synchrotron Rad., **8** (2001) 672.

T.Yaita and Y.Okamoto
Structure of Actinide Compounds in Solution and Molten Salt by Utilizing XAFS and X-Ray Diffraction Methods
J. Jpn. Soc. Synchrotron Rad. Res., **14** (2001) 42. (*in Japanese*).

28A

M.Sawada, A.Kimura and A.Kakizaki
Helicity Dependence of the Spin Polarization of Ni 6eV Satllite
J. Phys. Soc. Jpn., **69** (2000) 1891.

T.Koide
Soft X-Ray Magnetic Circular Dichroism -Studies of Co/Pt Superlattices and Perovskite Manganites-
J. Jpn. Soc. Synchrotron Rad. Res., **13** (2000) 23. (*in Japanese*).

28B

T.Iwazumi, T.Nakamura, H.Shoji, K.Kobayashi, S.Kishimoto, R.Katano, Y.Isozumi and S.Nanal
Magnetic Circular Dichroism of Gd 3d-2p and 4d-2p X-Ray Emission in Ferrimagnetic Gd-Co Amorphous
J. Phys. Chem. Solids, **61** (2000) 453.

T.Nakamura, H.Shoji, S.Nanao, T.Iwazumi, S.Kishimoto, R.Katano and Y.Isozumi
Magnetic Circular Dichroism of the X-Ray-Emission Spectra for the 2p → 1s Decay in Co Metal
Phys. Rev. B, **62** (2000) 5301.

Y.Watanabe, J.Tamura, H.Shoji, S.Nanao, T.Nakamura and Y.Yokoyama
X-Ray Magnetic Circular Dichroism in Quasicrystals Mater. Sci. Eng., **294** (2000) 617.

NE1A1

I.Matsumoto, J.Kwiatkowska, F.Maniawski, A.Bansil,
S.Kaprzyk, M.Ito, H.Kawata and N.Shiotani
A Compton Scattering Study of an Al-Li Disordered
Alloy Single Crystal
J. Phys. Chem. Sol., **61** (2000) 375.

NE1A2

S.Ohtsuka, Y.Sugishita, T.Takeda, Y.Itai, J.Tada,
K.Hyodo and M.Ando
High-Resolution Images of Coronary Calcifications by
Intense Low-Energy Fluoroscopic X-Ray Obtained from
Synchrotron Radiation
Acta Radiologica, **41** (2000) 64.

NE1B

T.Koide
Soft X-Ray Magnetic Circular Dichroism -Studies of
Co/Pt Superlattices and Perovskite Manganites-
J. Jpn. Soc. Synchrotron Rad. Res., **13** (2000) 23. (*in Japanese*).

NE3A

T.Takahashi, W.Yashiro, M.Takahashi, S.Kusano,
X.W.Zhang and M.Ando
Effect of Surface Structure on Crystal-Truncation-Rod
Scattering under the Bragg Condition
Phys. Rev. B, **62** (2000) 3630.

Y.Yoda, H.Igarashi, X.Zhang, Y.Imai, T.Mitsui,
I.Koyama and S.Kikuta
Multipole Nuclear Bragg Scattering
Hyperfine Interactions, **126** (2000) 435.

X.Zhang, Y.Yoda and Y.Imai
Precision Wavelength Measurement of the 14.4keV
Mössbauer Photon
J. Synchrotron Rad., **7** (2000) 189.

NE5A

H.Mori, H.Kasahawa, E.Tanaka, E.Sato, T.Sekka,
Y.Shinozaki, K.Tanioka, T.Kawai, K.Hyodo and
M.Ando
Visualization of Angiogenic Vessels by Synchrotron
Radiation Microangiography
Medical Imaging Technology, **18** (2000) 445. (*in Japanese*).

NE5C

K.Tsuji and M.Ohtani
Structure of Liquid Iodine under Pressure
Proc. of AIRAPT-17, Hawaii, 1999, (2000) 514.

M.Ohtani, K.Tsuji, N.Hosokawa and N.Funamori
Structure of Liquid Germanium under Pressure
Proc. of AIRAPT-17, Hawaii, 1999, (2000) 499.

O.Ohtaka, H.Fukui, T.Kunisada, T.Fujisawa,
K.Funakoshi, W.Utsumi, T.Irifune, K.Kuroda and
T.Kikegawa
Phase Relations and Equations of State of ZrO₂ under
High Temperature and High Pressure
Phys. Rev. B, **63** (2001) 174108.

K.Kusaba

Second-Order Phase Transition of FeS under High
Pressure and Temperature
J. Cryst. Soc. Jpn., **43** (2001) 180-184. (*in Japanese*).

O.Ohtaka, H.Fukui, T.Kunisada, T.Fujisawa,
K.Funakoshi, W.Utsumi, T.Irifune, K.Kuroda and
T.Kikegawa
Phase Relations and Volume Changes of Hafnia under
High Pressure and High Temperature
J. American Ceramic Soc., **84** (2001) 1369.

Others

M.Sato, S.Kitao, Y.Kobayashi, R.Haruki, T.Mitsui,
Y.Yoda, X.W.Zhang and Y.Maeda
Nuclear Resonance Scattering of Synchrotron Radiation
by ⁴⁰K
Phys. Rev. Lett., **84** (2000) 566.

R.Tai, Y.Takayama, N.Takaya, T.Miyahara,
S.Yamamoto, H.Sugiyama, J.Urakawa, H.Hayano
and M.Ando
A Novel Intensity Interferometer for Synchrotron
Radiation in the Vacuum Ultraviolet and Soft X-Ray
Regions
Rev. Sci. Inst., **71** (2000) 1256.

K.Mori, H.Shiwaku, N.Sekine, K.Hyodo, N.Shikano,
H.Sato, M.Sato and M.Ando
Imaging of Bone by X-Ray Phase-Contrast Method and
Synchrotron X-Radiation Photographing System
THE KONICA X-RAY PHOTOGRAPHIC REVIEW,
51 (2000) 101. (*in Japanese*).

K.Mori, N.Sekine, M.Sato, H.Sato, N.Shikano,
T.Igarashi, K.Hyodo and M.Ando
Observation of Small Fractures by Phase Sensitive
Radiography
ASVPI, **5** (2000) 47. (*in Japanese*).

K.Mori, N.Shikano, H.Shiwaku, H.Sato, M.Sato,
N.Sekine, K.Hyodo and M.Ando
A Novel Radiography for Visualization of Fracture Line
by Means of Synchrotron X-Ray Phase Contrast
M.J. Ibaraki P. H., **18-1** (2000) 33. (*in Japanese*).

T.Kurihara, A.Yagishita, A. Enomoto, H.Kobayashi,
T.Shidara, A.Shirakawa, K.Nakahara, H.Saitou,
K.Inoue, Y.Nagashima, T.Hyodo, Y.Nagai, M.Hasegawa,
Y.Inoue, Y.Kogure and M.Doyama
Intense Positron Beam at KEK
Nucl. Instrum. and Meth. Phys. Res., **B171** (2000)
164.

F.Saito, N.Suzuki, Y.Itoh, A.Goto, I.Fujiwara, T.Kurihara, R.Iwata, Y.Nagashima and T.Hyodo
Automatic ^{18}F Positron Source Supply System for a Monoenergetic Positron Beam
Radiation Physics and Chemistry, **58** (2000) 755.

L.Nahon, C.Alcaraz, J-J.Marlates, B.Lagarde, F.Polack, R.Thissen, D.Lepere and K.Ito
Very high spectral resolution obtained with SU5:A vacuum ultraviolet undulator-based beamline at Super-ACO
Rev. Sci. Instrum, **72** (2001) 1320.

Light Source Dept.

K.Ohmi and F.Zimmermann
Head-Tail Instability Caused by Electron Clouds in Positron Storage Rings
Phys. Rev. Lett., **85** (2000) 3821.

K.Ohmi
Simulation of Beam-Beam Effects in a Circular e^+e^- Collider
Phys. Rev. E, **62** (2000) 7287.

T.Kasuga
Quality Limits for Electron Rings
Proc. Joint CERN-JAPAN-JINR-RUSSIA-USA Accelerator School (JAS2000), (2000)

A.Mochihashi, T.Obina, Y.Tanimoto and T.Kasuga
Observation of Transverse Instabilities Using Bunch-by-Bunch Beam Diagnostic System in KEK-PF
Proc. 7th European Particle Accelerator Conference, Vienna, (2000) 1789.

T.Obina, Y.Tanimoto, T.Kasuga and A. Mochihashi
Vertical Instability with Transient Characteristics Observed in KEK-PF
Proc. 7th European Particle Accelerator Conference, Vienna, (2000) 1797.

S.Sakanaka, M.Izawa, T.Mitsuhashi and T.Takahashi
Improvement in the Beam Lifetime by means of an Rf Phase Modulation at the KEK Photon Factory Storage Ring
Phys. Rev. ST Accel. Beams, **3** (2000) 050701.

S.Sakanaka, M.Izawa, T.Mitsuhashi, M.Tadano and T.Takahashi
Improvement in the Beam Performance by an RF Phase Modulation at the KEK Photon Factory Storage Ring
Proc. 7th European Particle Accelerator Conference, (2000) 690.

T.Obina, Y.Tanimoto, T.Kasuga and A.Mochihashi
Vertical Instability with Transient Characteristics Observed in KEK-PF
Proc. the 7th European Particle Accelerator Conference, (2000) 1795.

A.Mochihashi, T.Obina, Y.Tanimoto and T.Kasuga
Vertical Instability with Transient Characteristics in KEK-Photon Factory Electron Storage Ring
Phys. Rev. ST Acc. Beams, **4** (2001) 022802.

T.Kasuga, A.Mochihashi, T.Obina and Y.Tanimoto
Optical Bunch-by-Bunch Beam Diagnostic System in KEK-PF
Proc. 5th European Workshop on Diagnostics and Beam Instrumentation, Grenoble, (2001) in press.

S.Sakanaka and T.Obina
Observation of Longitudinal Quadrupole-Mode Oscillations of a Bunch Which were Induced by RF Phase Modulation in the Electron Storage Ring
Jpn. J. Appl. Phys., **40** (2001) 2465.