

発表論文リスト

SPring-8年報は年度毎に発刊されているが、論文に関しては発刊「年」で編集している。今回は、2005年（1月～12月）に発刊された原著論文で、2006年6月30日までにSPring-8研究成果発表データベースに登録された論文を掲載している。それぞれのデータは順に以下の項目を示す。

SPring-8研究成果発表データベースの登録レコードNo.、論文タイトル、著者名、雑誌名、巻、発行年、掲載ページ

共用ビームライン

BL01B1

7000

Direct Speciation of Lead, Zinc and Antimony in Fly Ash from Waste Treatment Facilities by XAFS Spectroscopy

Masaki Takaoka, T. Yamamoto, T. Tanaka, N. Takeda, K. Oshita, T. Uruga

Physica Scripta, **T115** (2005) 943-945

7001

The Effect of Copper Speciation on the Formation of Chlorinated Aromatics on Real Municipal Solid Waste Incinerator Fly Ash

Masaki Takaoka, T. Yamamoto, A. Shiono, N. Takeda, K. Oshita, T. Matumoto, T. Tanaka

Chemosphere, **59** (2005) 1497-1505

7271

Structural and Electrical Characterizations of Electrodeposited p-Type Semiconductor Cu₂O Films

Kotaro Mizuno, T. Shinagawa, M. Izaki, M. Inaba, K. Murase, M. Chigane, A. Tasaka, Y. Awakura

Journal of the Electrochemical Society, **152** (2005) C179-C182

7377

Catalytic Performance and Elution of Pd in the Heck Reaction over Zeolite-Supported Pd Cluster Catalyst

Kazu Okumura, K. Nota, K. Yoshida, M. Niwa

Journal of Catalysis, **231** (2005) 245-253

7572

Investigation of Structural and Electronic Properties in Ru Perovskite Oxides by XAFS Measurements

Masaichiro Mizumaki, K. Yoshii, Y. Hinatsu, T. Doi, T. Uruga

Physica Scripta, **T115** (2005) 513-515

7577

Glancing Angle Fluorescence XAFS Study on Metal Oxide Thin Films Obtained by Oxygen Gas Cluster Ion Beam Assisted Deposition Techniques

Hiroyuki Kageyama, T. Asanuma, T. Takeuchi, K. Kadono, J. Matsuo, T. Seki, T. Kitagawa, N. Toyoda, Y. Shimizugawa, T. Uruga

Physica Scripta, **T115** (2005) 504-506

7654

Redox Behavior of Palladium at Start-up in the Perovskite-Type LaFePdO_x Automotive Catalysts Showing a Self-Regenerative Function

Mari Uenishi, M. Taniguchi, H. Tanaka, M. Kimura, Y. Nishihata, J. Mizuki, T. Kobayashi

Applied Catalysis B, **57** (2005) 267-273

7670

Simultaneous Fitting with Constraints for EXAFS Study of Anharmonic Vibrational System

Dong-Seok Yang, H. Park, I. Nakai

Physica Scripta, **T115** (2005) 240-242

7718

Chemical States of Trace Heavy Metals in Sewage Sludge by XAFS Spectroscopy

Masayasu Nagoshi, T. Kawano, S. Fujiwara, T. Miura, S. Udagawa, K. Nagahara, M. Takaoka, T. Uruga

Physica Scripta, **T115** (2005) 946-948

7740

Thermite Reaction Applied for Waste Treatment and Recycling

Hiroki Harada

Doctor Thesis (Kyoto University), (2005)

7852

Heterotrimetallic RuMnMn Species on a Hydrotalcite Surface

- as Highly Efficient Heterogeneous Catalysts for Liquid-Phase Oxidation of Alcohols with Molecular Oxygen
Kohki Ebitani, T. Mizugaki, K. Motokura, K. Kaneda
Angewandte Chemie International Edition, **44** (2005) 3423-3426
- 7859
Determination of the Ce(IV)/Ce(III) Ratio by XANES in Soil Horizons and its Comparison with the Degree of Ce Anomaly
Yoshio Takahashi, K. Yuita, N. Kihou, H. Shimizu, M. Nomura
Physica Scripta, **T115** (2005) 936-939
- 7860
Determination of the Eu(II)/Eu(III) Ratios in Minerals by X-ray Absorption Near-Edge Structure (XANES) and its Application to Hydrothermal Deposits
Yoshio Takahashi, T. Uruga, G. R. Kolonin, G. P. Shironosova, I. I. Kupriyanova, H. Shimizu
Mineralogical Magazine, **69** (2005) 179-190
- 7936
Quick XAFS Studies on the Y-Type Zeolite Supported Au Catalysts for CO-O₂ Reaction
Kazu Okumura, K. Yoshino, K. Kato, M. Niwa
The Journal of Physical Chemistry B, **109** (2005) 12380-12386
- 8153
Synchrotron X-ray Diffraction and Absorption Studies of CeM₂X₂ (M=Cu, Ni and X=Si, Ge) at High Pressure
Shirou Tsuduki, A. Onodera, K. Ishida, Y. Kitaoka, A. Onuki, N. Ishimatsu, O. Shimomura
Solid State Communications, **134** (2005) 747-751
- 8178
Speciation of Osmium in an Iron Meteorite and a Platinum Ore Specimen Based on X-ray Absorption Fine-Structure Spectroscopy
Naoki Sakakibara, Y. Takahashi, K. Okumura, K. Hattori, T. Yaita, K. Suzuki, H. Shimizu
Geochemical Journal, **39** (2005) 383-389
- 8362
The Active and Reusable Catalysts in the Benzylation of Anisole Derived from a Heteropoly Acid
Kazu Okumura, K. Yamashita, M. Hirano, M. Niwa
Journal of Catalysis, **234** (2005) 300-307
- 8409
Characterization of Transparent Ferromagnetic Fe:ZnO Semiconductor Films Chemically Prepared from Aqueous Solutions
Tsutomu Shinagawa, M. Izaki, H. Inui, K. Murase, Y. Awakura
Journal of the Electrochemical Society, **152** (2005) G736-G741
- 8539
X-ray Absorption Study on the Dominance of Sb(V) as Secondary Antimony Species in Soil
Satoshi Mitsunobu, T. Harada, K. Hoshino, Y. Takahashi
Chemistry Letters, **34** (2005) 1656-1657
- 8561
Dynamic Change of Copper in Fly Ash during de Novo Synthesis of Dioxins
Masaki Takaoka, A. Shiono, K. Nishimura, T. Yamamoto, T. Uruga, N. Takeda, T. Tanaka, K. Oshita, T. Matsumoto, H. Harada
Environmental Science & Technology, **39** (2005) 5878-5884
- 8562
Determination of Chemical Form of Antimony in Contaminated Soil around a Smelter using X-ray Absorption Fine Structure
Masaki Takaoka, S. Fukutani, T. Yamamoto, M. Horiuchi, N. Satta, N. Takeda, K. Oshita, M. Yoneda, S. Morisawa, T. Tanaka
Analytical Sciences, **21** (2005) 769-773
- 8593
A Structural Basis for Depolymerization of Alginate by Polysaccharide Lyase Family-7
Masayuki Yamasaki, K. Ogura, W. Hashimoto, B. Mikmai, K. Murata
Journal of Molecular Biology, **352** (2005) 11-21
- 8597
Direct Observation of Fe Spin Reorientation in Single-Crystalline YbFe₆Ge₆
Marcos A. Avila, T. Takabatake, Y. Takahashi, S. L. Bud'ko, P. C. Canfield
Journal of Physics: Condensed Matter, **17** (2005) 6969-6979
- 8779
Occurrence of Arsenic (V) in Forearc Mantle Serpentinites Based on X-ray Absorption Spectroscopy Study
Keiko Hattori, Y. Takahashi, S. Guillot, B. Johanson
Geochimica et Cosmochimica Acta, **69** (2005) 5585-5596

- 8848
Catalytic Investigations of Carbon-Carbon Bond-Forming Reactions by a Hydroxyapatite-Bound Palladium Complex
Kohsuke Mori, T. Mizugaki, M. Oshiba, T. Hara, K. Ebitani, K. Kaneda
New Journal of Chemistry, **29** (2005) 1174-1181
- 8905
Why Phase-Change Media Are Fast and Stable: A New Approach to an Old Problem
Paul Fons, A. Kolobov, J. Tominaga, A. Frenkel, A. L. Ankudinov, S. N. Yannopoulos, K. S. Andrikopoulos, T. Uruga
Japanese Journal of Applied Physics, **44** (2005) 3345-3349
- BL02B1**
- 7700
In-situ Measurement of Internal Stresses in Solid Oxide Fuel Cells during Thermal Cycling by Synchrotron Radiation
Hirofumi Sumi, Y. Mizutani, Y. Doi, Y. Akiniwa, K. Tanaka
材料 (Journal of the Society of Materials Science, Japan), **54** (2005) 440-446
- 7842
Conclusive Determination of the Absolute Configuration of Chiral C₆₀ Fullerene *cis*-3 Bis-Adducts by X-ray Crystallography and Circular Dichroism
Shunsuke Kuwahara, K. Obata, K. Yoshida, T. Matsumoto, N. Harada, N. Yasuda, Y. Ozawa, K. Toriumi
Angewandte Chemie International Edition, **44** (2005) 2262-2265
- 8010
A New Molecular Oxide with a Pt₂Mo₂O₈ Core and Its Two Conformers
Keiki Noro, Y. Ozawa, A. Yagasaki
Inorganic Chemistry Communications, **8** (2005) 729-731
- 8025
A Neutral Mixed-Valent Conducting Polymer Formed by Electron Transfer between Metal d and Ligand π Orbitals
Minoru Mitsumi, H. Gotoh, S. Umebayashi, Y. Ozawa, M. Kobayashi, T. Yokoyama, H. Tanaka, S. Kuroda, K. Toriumi
Angewandte Chemie International Edition, **44** (2005) 4164-4168
- 8131
Spalling Stress in Oxidized Thermal Barrier Coatings Evaluated by X-ray Diffraction Method
Kenji Suzuki, K. Tanaka
Materials Science Forum, **490-491** (2005) 631-636
- 8133
Analysis on Residual Stress Distribution in Oxidized Thermal Barrier Coatings
Kenji Suzuki, T. Kubo, K. Tanaka, Y. Akiniwa
材料 (Journal of the Society of Materials Science, Japan), **54** (2005) 679-684
- 8155
Structural Properties and Phase Transition of Hole-Orbital-Ordered (C₂H₅NH₃)₂CuCl₄ Studied by Resonant and Non-Resonant X-ray Scatterings under High Pressure
Kenji Ohwada, K. Ishii, T. Inami, Y. Murakami, T. Shobu, H. Ohsumi, N. Ikeda, Y. Ohishi
Physical Review B, **72** (2005) 014123
- 8909
Analysis on Residual Stress in Electron Beam-Physical Vapor Deposited Thermal Barrier Coating using Hard Synchrotron X-ray
Kenji Suzuki, T. Kubo, S. Machiya, K. Tanaka, Y. Akiniwa
日本機械学会論文集A編 (Transactions of the Japan Society of Mechanical Engineers, Series A), **71** (2005) 1523-1529
- 8910
Measurement of Residual Stress Distribution by Strain Scanning Method using High Energy X-rays from Synchrotron Source
Kenji Suzuki, S. Machiya, Y. Akiniwa, K. Tanaka, T. Kurimura, H. Oguma
日本機械学会論文集A編 (Transactions of the Japan Society of Mechanical Engineers, Series A), **71** (2005) 1531-1537
- BL02B2**
- 7128
Disorder in the Cubic Phase of PbHfO₃ Studied by High Energy Synchrotron-Radiation Diffraction
Yoshihiro Kuroiwa, H. Fujiwara, A. Sawada, H. Kawaji, T. Atake
Journal of the Korean Physical Society, **46** (2005) 296-299

- 7272
Direct Observation of Hydrogen Molecules Adsorbed onto a Microporous Coordination Polymer
Yoshiki Kubota, M. Takata, R. Matsuda, R. Kitaura, S. Kitagawa, K. Kato, M. Sakata, T. Kobayashi
Angewandte Chemie International Edition, **44** (2005) 920-923
- 7304
Unconventional Magnetic Transitions in the Mineral Clinoatacamite $\text{Cu}_2\text{Cl}(\text{OH})_3$
Xu-Guang Zheng, H. Yamada, C. N. Xu, T. Kawase, Y. Kashitani, C. S. Li, N. Tateiwa, K. Takeda, Y. Ren
Physical Review B, **71** (2005) 052409
- 7638
Antiferromagnetic Transitions in Polymorphous Minerals of the Natural Cuprates Atacamite and Botallackite $\text{Cu}_2\text{Cl}(\text{OH})_3$
Xu-Guang Zheng, H. Yamada, T. Mori, K. Nishiyama, W. Higemoto, K. Nishikubo, C. Xu
Physical Review B, **71** (2005) 174404
- 7722
Effect of Mn Trimerization on the Magnetic and Dielectric Properties of Hexagonal YMnO_3
Yuki Aikawa, T. Katsufuji, T. Arima, K. Kato
Physical Review B, **71** (2005) 184418
- 7797
Designed Ferromagnetic, Ferroelectric $\text{Bi}_2\text{NiMnO}_6$
Masaki Azuma, K. Takata, T. Saito, S. Ishiwata, Y. Shimakawa, M. Takano
Journal of the American Chemical Society, **127** (2005) 8889-8892
- 7798
Crystallographic Features and Tetragonal Phase Stability of PbVO_3 , a New Member of PbTiO_3 Family
Alexei A. Belik, M. Azuma, T. Saito, Y. Shimakawa, M. Takano
Chemistry of Materials, **17** (2005) 269-276
- 7820
Structural and Magnetic Properties of the Phase Transition in Absorbed and Non-Absorbed Copper(II) *trans*-1,4-cyclohexanedicarboxylate
Mikako Inoue, T. Atake, H. Kawaji, T. Tojo
Solid State Communications, **134** (2005) 303-306
- 7821
Strongly Correlated Behavior in Magnetoresistive $\text{Fe}_{1-x}\text{Cu}_x\text{Cr}_2\text{S}_4$ Spinels
Makoto Tachibana, K. Akiyama, M. Yoshizawa, H. Kawaji, T. Atake
Physical Review B, **71** (2005) 180403(R)
- 8026
Pressure/Temperature/Substitution-Induced Melting of A-Site Charge Disproportionation in $\text{Bi}_{1-x}\text{La}_x\text{NiO}_3$ ($0 \leq x \leq 0.5$)
Shintaro Ishiwata, M. Azuma, M. Hanawa, Y. Moritomo, Y. Ohishi, K. Kato, M. Takata, E. Nishibori, M. Sakata, I. Terasaki, M. Takano
Physical Review B, **72** (2005) 045104
- 8093
Specific Heat Measurement of the Layered Nitride Superconductor Li_xZrNCl
Yasujirou Taguchi, M. Hisakabe, Y. Iwasa
Physical Review Letters, **94** (2005) 217002
- 8179
Observation of Phase Transition with Lattice Distortion in the Low-dimensional Quantum Spin System TiOBr by Synchrotron X-ray Diffraction – Evidence of Spin-Peierls Transition? –
Tomoyuki Sasaki, M. Mizumaki, K. Kato, Y. Watabe, Y. Nishihata, M. Takata, J. Akimitsu
Journal of the Physical Society of Japan, **74** (2005) 2185-2188
- 8293
Phase Relationships of Crystalline Polymorphs of Mesogenic 4-cyano-4'-heptyloxybiphenyl (7OCB) and 4-cyano-4'-octyloxybiphenyl (8OCB)
Kayako Hori, Y. Iwai, M. Yano, R. Orihara-Furukawa, Y. Tominaga, E. Nishibori, M. Takata, M. Sakata, K. Kato
Bulletin of the Chemical Society of Japan, **78** (2005) 1223-1229
- 8326
Finite-size Effect on Néel Temperature in Antiferromagnetic Nanoparticles
Xu-Guang Zheng, C. Xu, K. Nishikubo, K. Nishiyama, W. Higemoto, W. J. Moon, E. Tanaka, E. S. Otabe
Physical Review B, **72** (2005) 014464
- 8366
Extremely Long Period-Stacking Structure in the Sb-Te Binary System

- Kouichi Kifune, Y. Kubota, T. Matsunaga, N. Yamada
Acta Crystallographica Section B, **61** (2005) 492-497
- 8444
A Study of Structures and Order Parameters in Antiferroelectric PbHfO₃ by Synchrotron Radiation
Hideshi Fujishita, Y. Ishikawa, A. Ogawaguchi, K. Kato, E. Nishibori, M. Takata, M. Sakata
Journal of the Physical Society of Japan, **74** (2005) 2743-2747
- 8451
Space-Group Symmetry for the Perovskite Ca_{0.3}Sr_{0.7}TiO₃
Christopher Howard, R. L. Withers, Z. Zhang, K. Osaka, K. Kato, M. Takata
Journal of Physics: Condensed Matter, **17** (2005) L459 – L465
- 8464
Size Effect on Crystal Structure and Chemical Bonding Nature in BaTiO₃ Nanopowder
Shinobu Aoyagi, Y. Kuroiwa, A. Sawada, H. Kawaji, T. Atake
Journal of Thermal Analysis Calorimetry, **81** (2005) 627-630
- 8465
High-Energy SR Powder Diffraction Evidence of Multisite Disorder of Pb Atom in Cubic Phase of PbZr_{1-x}Ti_xO₃
Yoshihiro Kuroiwa, Y. Terado, S. Kim, A. Sawada, Y. Yamamura, S. Aoyagi, E. Nishibori, M. Sakata, M. Takata
Japanese Journal of Applied Physics, **44** (2005) 7151-7155
- 8479
Magnetic-Field Switching of Crystal Structure in an Orbital-Spin-Coupled System: MnV₂O₄
Kenta Adachi, T. Suzuki, K. Kato, K. Osaka, M. Takata, T. Katsufuji
Physical Review Letters, **95** (2005) 197202
- 8950
Heat Capacity of Ce_{0.8}Y_{0.2}O_{1.9} and the Effects of Dissolution of Water/Hydrogen
Hitoshi Kawaji, Y. Yokobayashi, T. Atake
Thermochimica Acta, **431** (2005) 49-52
- 8951
Lattice Effects in Multiferroic RMn₂O₅ (R=Sm-Dy,Y)
Makoto Tachibana, K. Akiyama, H. Kawaji, T. Atake
Physical Review B, **72** (2005) 224425
- 9014
Crystal Structures, Atomic Vibration, and Disorder of the Type-I thermoelectric Clathrates Ba₈Ga₁₆Si₃₀, Ba₈Ga₁₆Ge₃₀, Ba₈In₁₆Ge₃₀, and Sr₈Ga₁₆Ge₃₀
Anders Bentien, E. Nishibori, S. Paschen, B. Iversen
Physical Review B, **71** (2005) 114107
- 9015
An Anomalous Endohedral Structure of Eu@C₈₂ Metallofullerenes
Bao-Yun Sun, E. Nishibori, T. Sugai, K. Iwata, M. Sakata, M. Takata, H. Shinohara
Angewandte Chemie International Edition, **44** (2005) 4568-4571
- 9033
Highly Controlled Acetylene Accommodation in a Metal-Organic Microporous Material
Ryotaro Matsuda, R. Kitaura, S. Kitagawa, Y. Kubota, R. Belosludov, T. Kobayashi, H. Sakamoto, T. Chiba, M. Takata, Y. Kawazoe, Y. Mita
Nature, **436** (2005) 238-241
- 9234
Single-Layer Oxichloride Superconductor Ca_{2-x}CuO₂Cl₂ with A-site Cation Deficiency
Ikuya Yamada, A. A. Belik, M. Azuma, S. Harjo, T. Kamiyama, Y. Shimakawa, M. Takano
Physical Review B, **72** (2005) 224503
- 9456
Transparent Polymer Nanohybrid Prepared by *in situ* Synthesis of Aluminosilicate Nanofiber in Poly(vinyl alcohol) Solution
Kazuya Yamamoto, D. Sohn, H. Otsuka, S. Wada, A. Takahara
Soft Matter, **1** (2005) 372-377
- BL04B1**
- 4828
Thermal Equation of State of Majorite with MORB Composition
Yu Nishihara, I. Aoki, E. Takahashi, K. N. Matsukage, K. Funakoshi
Physics of the Earth and Planetary Interiors, **148** (2005) 73-84
- 7091
In situ X-ray Observation of Phase Transformation of Fe₂O₃
Shigeaki Ono, K. Funakoshi, Y. Ooishi, E. Takahashi

7170

Water in the Mantle

Eiji Ohtani

Elements, **1** (2005) 25-30

7454

High-Pressure Phase Transitions in SnO₂

Shigeaki Ono, K. Funakoshi, A. Nozawa, T. Kikegawa

Journal of Applied Physics, **97** (2005) 073523

7814

Thermoelastic Properties of (Mg_{0.64}Fe_{0.36})O Ferropericlaase Based on in situ X-ray Diffraction to 26.7 GPa and 2173 K

Willem van Westrenen, J. Li, Y. Fei, M. Frank, H. Hellwig, T. Komabayashi, K. Mibe, W. Minarik, J. Van Orman, H. Watson, K. Funakoshi, M. Schmidt

Physics of the Earth and Planetary Interiors, **151** (2005) 163-176

7960

P-V-T Equation of State of Stishovite to the Mantle Transition Zone Conditions

Yu Nishihara, K. Nakayama, E. Takahashi, T. Iguchi, K. Funakoshi

Physics and Chemistry of Minerals, **31** (2005) 660-670

8223

Stability of Phase A in Antigorite (Serpentine) Composition Determined by in situ X-ray Pressure Observations

Tetsuya Komabayashi, K. Hirose, K. Funakoshi, N. Takafuji

Physics of the Earth and Planetary Interiors, **151** (2005) 276-289

8302

Viscosity of Silicate Melts in CaMgSi₂O₆ – NaAlSi₂O₆ System at High Pressure

Akio Suzuki, E. Ohtani, H. Terasaki, K. Funakoshi

Physics and Chemistry of Minerals, **32** (2005) 140-145

8481

Pressure and Temperature Dependence of the Structure of Liquid InSb

Takanori Hattori, T. Kinoshita, N. Taga, N. Takasugi, T. Mori, K. Tsuji

Physical Review B, **72** (2005) 064205

BL04B2

7231

Reversible Photoelectronic Signal Conversion Based on Photoisomerization-Controlled Coordination Change of Azobenzene-bipyridine Ligands to Copper

Shoko Kume, M. Murata, T. Ozeki, H. Nishihara

Journal of the American Chemical Society, **127** (2005) 490-491

7580

Synthesis and Characterization of Stable Hypervalent Carbon Compounds (10-C-5) Bearing a 2,6-Bis(*p*-substituted phenyloxymethyl) benzene Ligand

Kin-ya Akiba, Y. Moriyama, M. Mizozoe, H. Inohara, T. Nishii, Y. Yamamoto, M. Minoura, D. Hashizume, F. Iwasaki, N. Takagi, K. Ishimura, S. Nagase

Journal of the American Chemical Society, **127** (2005) 5893-5901

7633

Temperature Dependence of Isotopic Quantum Effects in Water

Rob Hart, C. Benmore, J. Neuefeind, S. Kohara, B. Tomberli, P. Egelstaff

Physical Review Letters, **94** (2005) 047801

7634

Intermediate-Range Order in Vitreous SiO₂ and GeO₂

Shinji Kohara, K. Suzuya

Journal of Physics: Condensed Matter, **17** (2005) S77-S86

7850

Structure of Amorphous TbNi₂D_{2.4} Observed by X-ray and Neutron Diffraction

Keiji Itoh, T. Sawada, K. Aoki, T. Fukunaga

Journal of Alloys and Compounds, **392** (2005) 6-11

8534

A New 19-Metal-Atom Cluster [(Me₂PhP)₁₀Au₁₂Ag₇(NO₃)₉] with a Nearly Staggered-Staggered M₃ Ring Configuration

Keiko Nunokawa, M. Ito, T. Sunahara, S. Onaka, T. Ozeki, H. Chiba, Y. Funahashi, H. Masuda, T. Yonezawa, H. Nishihara, M. Nakamoto, M. Yamamoto

Dalton Transactions, (2005) 2726-2730

8537

PDF Analysis on Re-crystallized Structure from Amorphous BiTl
Yasuhiro Yoneda, S. Kohara, S. Hamazaki, M. Takashige, J. Mizuki

Nuclear Instruments and Methods in Physics Research Section B, **238** (2005) 150-153

8687

Structure of Nano-crystalline FeTiD_x by Neutron and X-ray Diffraction

Keiji Itoh, H. Sasaki, H. Takeshita, K. Mori, T. Fukunaga
Journal of Alloys and Compounds, **404-406** (2005) 95-98

8807

Methoxide of an Anderson-Type Polyoxometalate and Its Conversion to a New Type of Species, [IMo₉O₃₂(OH)(OH₂)₃]⁴⁻
Daisuke Honda, T. Ozeki, A. Yagasaki

Inorganic Chemistry, **44** (2005) 9616-9618

8883

Structure and Electron-Ion Correlation of Liquid Germanium
Yukinobu Kawakita, S. Fujita, S. Kohara, K. Ohshima, H. Fujii, Y. Yokota, S. Takeda

Nuclear Instruments and Methods in Physics Research Section B, **238** (2005) 129-133

BL08W

6708

Magnetic Compton Scattering Study of UCoAl

Satoshi Tsutsui, Y. Sakurai, M. Itou, T. Matsuda, Y. Haga, Y. Onuki

Physica B, **359-361** (2005) 1117-1119

7552

Discrimination of Arsenous Acids with Comparison of Trace Elements Contained by using Synchrotron X-ray Fluorescence Spectrometry

Shinichi Suzuki, Y. Suzuki, H. Ohta, R. Sugita, M. Kasamatsu, Y. Marumo

Forensic Science International, **148** (2005) 55-59

8056

Magnetic Compton Scattering Studies of Electrochemically Hydrobenated Nickel

Souichiro Mizusaki, T. Miyatake, N. Sato, I. Yamamoto, M. Itou, Y. Sakurai, M. Yamaguchi

Japanese Journal of Applied Physics, **44** (2005) 3939-3944

8086

Experimental Study on Interlayer Magnetic Coupling in Sputtered Al/Fe/Al/Gd Magnetic Multilayer Films. I

Ritthikrai Chai-Ngam, N. Sakai, A. Koizumi, H. Kobayashi, T. Ishii

Journal of the Physical Society of Japan, **74** (2005) 1843-1848

8354

Experimental Determination of the PdH_{0.84} Fermi Surface

Souichiro Mizusaki, T. Miyatake, N. Sato, M. Itou, I. Yamamoto, Y. Sakurai, M. Yamaguchi

Journal of Alloys and Compounds, **404-406** (2005) 169-171

8913

Experimental Study on Interlayer Magnetic Coupling in Sputtered Al/Fe/Al/Gd Magnetic Multilayer Films

Ritthikrai Chai-Ngam, N. Sakai, A. Koizumi, H. Kobayashi, T. Ishii

Journal of the Physical Society of Japan, **74** (2005) 1843-1848

9140

Hole Concentration Dependence of Mn *e_g* Orbital State in Bilayer Manganites Studied by Magnetic Compton Profile Measurement

Akihisa Koizumi, T. Nagao, Y. Kakutani, N. Hiraoka, N. Sakai, T. Arima, K. Hirota, Y. Murakami

Journal of Physics and Chemistry of Solids, **66** (2005) 2183-2191

9430

Compton Scattering Study of the Silicon Clathrate Ba₈Si₄₆: Experiment and Theory

Masayoshi Itou, Y. Sakurai, M. Usuda, C. Cros, H. Fukuoka, S. Yamanaka

Physical Review B, **71** (2005) 125125

9506

Evaluation of a Quantitative Method for Trace Impurities in Arsenous Acids by Synchrotron Radiation X-ray Fluorescence Spectrometry and Inductivity Coupled Plasma-Atomic Emission Spectrometry

Shinichi Suzuki, Y. Suzuki, H. Ohta, M. Kasamatsu, T. Nakanishi

Analytical Sciences, **21** (2005) 775-778

BL09XU

7125

Evidence for Nuclear Excitation by Electron Transition on ¹⁹³Ir and Its Probability

Shunji Kishimoto, Y. Yoda, Y. Kobayashi, S. Kitao, R. Haruki,

- M. Seto
Nuclear Physics A, **748** (2005) 3-11
- 7368
X-ray Diffraction Measurements of Internal Strain in Si Nanowires Fabricated using a Self-Limiting Oxidation Process
Takayoshi Shimura, K. Yasutake, M. Umeno, M. Nagase
Applied Physics Letters, **86** (2005) 071903
- 7487
Measurement of Stress Distribution Near Fatigue Crack in Ultra-Fine Grained Steel by Synchrotron Radiation
Yoshiaki Akiniwa, K. Tanaka, H. Kimura
Materials Science Forum, **490-491** (2005) 118-123
- 7500
Comparison of Ordered Structure in Buried Oxide Layers in High-Dose, Low-Dose, and Internal-Thermal-Oxidation Separation-by-Implanted-Oxygen Wafers
Takayoshi Shimura, K. Fukuda, K. Yasutake, T. Hosoi, M. Umeno
Thin Solid Films, **476** (2005) 125-129
- 7589
Nuclear Resonance Spectroscopy of the 31-yr Isomer of Hf-178
Carl B. Collins, N. C. Zaita, F. Davanloo, Y. Yoda, T. Uruga, J. Pouvesle, I. Popescu
Laser Physics Letters, **2** (2005) 162-167
- 9400
Normal Mode Analysis of *Pyrococcus furiosus* Rubredoxin via Nuclear Resonance Vibrational Spectroscopy (NRVS) and Resonance Raman Spectroscopy
Yuming Xiao, H. Wang, S. George, M. Smith, M. Adams, F. Jenney, W. Sturhahn, E. Alp, J. Zhao, Y. Yoda, A. Dey, E. Solomon, S. Cramer
Journal of the American Chemical Society, **127** (2005) 14596-14606
- BL10XU**
- 7091
In situ X-ray Observation of Phase Transformation of Fe₂O₃
Shigeaki Ono, K. Funakoshi, Y. Ooishi, E. Takahashi
Journal of Physics: Condensed Matter, **17** (2005) 269-276
- 7121
Structural and Electrical Properties of Stoichiometric FeS Compounds under High Pressure at Low Temperature
Hisao Kobayashi, T. Kamimura, Y. Ohishi, N. Takeshita, N. Mori
Physical Review B, **71** (2005) 014110
- 7158
A High-Pressure and High-Temperature Synthesis of Platinum Carbide
Shigeaki Ono, Y. Ooishi, T. Kikegawa
Solid State Communications, **133** (2005) 55-59
- 7230
In situ X-ray Observations of Phase Assemblages in Peridotite and Basalt Compositions at Lower Mantle Conditions: Implications for Density of Subducted Oceanic Plate
Shigeaki Ono, Y. Ohishi, M. Isshiki, T. Watanuki
Journal of Geophysical Research, **110** (2005) B02208
- 7236
X-ray Diffraction of Multiwalled Carbon Nanotube under High Pressure: Structural Durability on Static Compression
Hitoshi Yusa, T. Watanuki
Carbon, **43** (2005) 519-523
- 7326
Charge Ordering in Eu₄As₃ under Pressure
Hisao Kobayashi, Y. Kazekami, Y. Ohishi, M. Shirakawa, A. Ochiai
Journal of Physics: Condensed Matter, **17** (2005) S895-S899
- 7394
Characterization of Intercalated Iron(III) Nanoparticles and Oxidative Adsorption of Arsenite on Them Monitored by X-ray Absorption Fine Structure Combined with Fluorescence Spectrometry
Yasuo Izumi, D. Masih, K. Aika, Y. Seida
The Journal of Physical Chemistry B, **109** (2005) 3227-3232
- 7445
Post-Aragonite Phase Transformation in CaCO₃ at 40 Gpa
Shigeaki Ono, Y. Ooishi, T. Kikegawa, J. Tsuchiya
American Mineralogist, **90** (2005) 667-671
- 7584
Monitoring Trace Amounts of Lead and Arsenic Adsorption by X-ray Absorption Fine Structure Combined with Fluorescence Spectrometry
Yasuo Izumi, F. Kiyotaki, T. Minato, D. Masih, Y. Seida

- Physica Scripta, **T115** (2005) 933-935
- 7601
Stability and Equation of State of MgGeO₃ Post-Perovskite Phase
Kei Hirose, K. Kawamura, Y. Ohishi, S. Tateno, N. Sata
American Mineralogist, **90** (2005) 262-265
- 7603
Post-Perovskite Phase Transition and Mineral Chemistry in the Pyrolytic Lowermost Mantle
Motohiko Murakami, K. Hirose, N. Sata, Y. Ohishi
Geophysical Research Letters, **32** (2005) L03304
- 7622
A New High-Pressure Phase of Strontium Carbonate
Shigeaki Ono, M. Shirasaka, T. Kikegawa, Y. Ooishi
Physics and Chemistry of Minerals, **32** (2005) 8-12
- 7761
High-Pressure and High-Temperature Synthesis of a Cubic IrO₂ Polymorph
Shigeaki Ono, T. Kikegawa, Y. Ohishi
Physica B, **363** (2005) 140-145
- 7863
Unquenchable Hexagonal Perovskite in High-Pressure Polymorphs of Strontium Silicates
Hitoshi Yusa, M. Akaogi, N. Sata, H. Kojitani, Y. Kato, Y. Ooishi
American Mineralogist, **90** (2005) 1017-1020
- 8022
New Helical Chain Structure for Scandium at 240 Gpa
Yuichi Akahama, H. Fujihisa, H. Kawamura
Physical Review Letters, **94** (2005) 195503
- 8026
Pressure/Temperature/Substitution-Induced Melting of A-Site Charge Disproportionation in Bi_{1-x}La_xNiO₃ (0 ≤ x ≤ 0.5)
Shintaro Ishiwata, M. Azuma, M. Hanawa, Y. Moritomo, Y. Ohishi, K. Kato, M. Takata, E. Nishibori, M. Sakata, I. Terasaki, M. Takano
Physical Review B, **72** (2005) 045104
- 8155
Structural Properties and Phase Transition of Hole-Orbital-Ordered (C₂H₅NH₃)₂CuCl₄ Studied by Resonant and Non-Resonant X-ray Scatterings under High Pressure
Kenji Ohwada, K. Ishii, T. Inami, Y. Murakami, T. Shobu, H. Ohsumi, N. Ikeda, Y. Ohishi
Physical Review B, **72** (2005) 014123
- 8157
The High-Pressure Phase of Alumina and Implications for Earth's D" Layer
Artem R. Oganov, S. Ono
Proceedings of the National Academy of Sciences of the United States of America, **102** (2005) 10828-10831
- 8176
The Pyrite-Type High-Pressure Form of Silica
Yasuhiro Kuwayama, K. Hirose, N. Sata, Y. Ohishi
Science, **309** (2005) 923-925
- 8229
Evidence of a Pressure-Induced Orbital Transition in a Layered Manganite
Kenichi Kato, Y. Ooishi, M. Takata, E. Nishibori, M. Sakata, Y. Moritomo
Physical Review B, **71** (2005) 012404
- 8316
X-ray Absorption Fine Structure Combined with X-ray Fluorescence Spectrometry. Improvement of Spectral Resolution at the Absorption Edges of 9 - 29 keV
Yasuo Izumi, H. Nagamori, F. Kiyotaki, D. Masih, T. Minato, E. Roisin, J. Candy, H. Tanida, T. Uruga
Analytical Chemistry, **77** (2005) 6969-6975
- 8448
In situ Observations of Phase Transition between Perovskite and CaIrO₃-Type Phase in MgSiO₃ and Pyrolytic Mantle Composition
Shigeaki Ono, A. Oganov
Earth and Planetary Science Letters, **236** (2005) 914-932
- 8599
Anomalous Large Electron-Phonon Coupling Constant in Layered Nitride Superconductors as Revealed by High-Pressure Experiments
Yasujirou Taguchi, M. Hisakabe, S. Yamanaka, Y. Ooishi, Y. Iwasa
Physica C, **426-431** (2005) 482-486
- 8690
Raman Study on the Stress State of [111] Diamond Anvils at

Multimegabar Pressure

Yuichi Akahama, H. Kawamura

Journal of Applied Physics, **98** (2005) 83523

8692

Incommensurate Composite Crystal Structure of Scandium-II

Hiroshi Fujihisa, Y. Akahama, H. Kawamura, Y. Gotoh, H. Yamawaki, M. Sakashita, S. Takeya, K. Honda

Physical Review B, **72** (2005) 132103

8714

Phase Relations in $\text{Mg}_3\text{Al}_2\text{Si}_3\text{O}_{12}$ to 180 GPa: Effect of Al on Post-Perovskite Phase Transition

Shigehiko Tateno, K. Hirose, N. Sata, Y. Ohishi

Geophysical Research Letters, **32** (2005) L15306

8774

In situ X-ray Observation of Phase Transformation in Fe_2O_3 at High Pressures and High Temperatures

Shigeaki Ono, Y. Ohishi

Journal of Physics and Chemistry of Solids, **66** (2005) 1714-1720

BL11XU (共用分)

8309

Fine Structure in the Quadrupolar Transition of the Ho L_3 Pre-Edge Observed by Lifetime-Broadening-Suppressed XANES Spectroscopy

Hisashi Hayashi, M. Kawata, A. Sato, Y. Udagawa, T. Inami, K. Ishii, H. Ogasawara, S. Nanao

Physical Review B, **72** (2005) 045114

BL13XU

7082

Reciprocal-Lattice Space Imaging of X-ray Intensities Diffracted from Nanowires

Osami Sakata, A. Kitano, W. Yashiro, K. Sakamoto, K. Miki, A. Matsuda, W. Hara, S. Akiba, M. Yoshimoto

Materials Research Society Symposia Proceedings, **840** (2005) Q6.4.1-6

7152

Grazing Incidence X-ray Diffraction Study on Surface Crystal Structure of Polyethylene Thin Films

Hirohiko Yakabe, K. Tanaka, T. Nagamura, S. Sasaki, O. Sakata, A. Takahara, T. Kajiyama

Polymer Bulletin, **53** (2005) 213-222

7163

Dependence of the Molecular Aggregation State of Octadecylsiloxane Monolayers on Preparation Methods

Tomoyuki Koga, S. Sasaki, O. Sakata, M. Morita, H. Yakabe, H. Ishida, H. Otsuka, A. Takahara

Langmuir, **21** (2005) 905-910

7176

Monomer Structures of Water Adsorbed on $p(2 \times 2)$ -Ni(111)-O Surface at 25 and 140 K by Surface X-Ray Diffraction

Masashi Nakamura, M. Ito

Physical Review Letters, **94** (2005) 035501

7500

Comparison of Ordered Structure in Buried Oxide Layers in High-Dose, Low-Dose, and Internal-Thermal-Oxidation Separation-by-Implanted-Oxygen Wafers

Takayoshi Shimura, K. Fukuda, K. Yasutake, T. Hosoi, M. Umeno

Thin Solid Films, **476** (2005) 125-129

7525

Study of Solid/Solid Interface by Transmitted X-ray Reflectivity

Kouji Inoue, A. Kitahara, K. Matsushita, H. Kikkawa, F. Nakabayashi, N. Ageishi, H. Terauchi, O. Sakata, I. Takahashi

Surface and Interface Analysis, **37** (2005) 185-189

7579

Study on the Structures and the Phase Transitions of Ag/Si(111) Surfaces by X-ray Diffraction

Kazushi Sumitani

Doctor Thesis (The University of Tokyo), (2005)

7582

Study on Fine Structure Analysis of Crystalline Polymers in the Constrained State

Hirohiko Yakabe

Doctor Thesis (Kyushu University), (2005) 1-68

7583

Study on the Molecular Aggregaton Structure and Microfabrication of Organosilane Monolayers

Tomoyuki Koga

Doctor Thesis (Kyushu University), (2005)

- 7801
Femtosecond Laser Driven Shock Synthesis of the High-Pressure Phase of Iron
Tomokazu Sano, O. Sakata, H. Mori, E. Ohmura, I. Miyamoto, A. Hirose, K. F. Kobayashi
Applied Surface Science, **247** (2005) 571-576
- 7851
Water Adsorption on a $p(2 \times 2)$ -Ni(111)-O Surface Studied by Surface X-ray Diffraction and Infrared Reflection Absorption Spectroscopy at 25 and 140 K
Masashi Nakamura, M. Tanaka, M. Ito, O. Sakata
The Journal of Chemical Physics, **122** (2005) 224703
- 7878
Molecular Aggregation Structure of Poly(fluoroalkyl acrylate) Thin Films Evaluated by Synchrotron-sourced Grazing-incidence X-ray Diffraction
Koji Honda, H. Yakabe, T. Koga, S. Sasaki, O. Sakata, H. Otsuka, A. Takahara
Chemistry Letters, **34** (2005) 1024-1025
- 8213
Order-Disorder Transition in the Surface Charge-Density-Wave Phase of Cu(001)- $c(4 \times 4)$ -In
Shin-ichiro Hatta, H. Okuyama, T. Aruga, O. Sakata
Physical Review B, **72** (2005) 081406(R)
- 8319
Encapsulation of Atomic-Scale Bi Wires in Epitaxial Silicon without Loss of Structure
Osami Sakata, W. Yashiro, D. R. Bowler, A. Kitano, K. Sakamoto, K. Miki
Physical Review B, **72** (2005) 121407(R)
- 8463
Charge Density Wave and Order-disorder Transition on In/Cu(001)
Shin-ichiro Hatta
Doctor Thesis (Kyoto University), (2005)
- 8543
Dependence of Electrical Properties of Epitaxial Pb(Zr,Ti)O₃ Thick Films on Crystal Orientation and Zr/(Zr+Ti) Ratio
Shintaro Yokoyama, Y. Honda, H. Morioka, S. Okamoto, H. Funakubo, T. Iijima, H. Matsuda, K. Saito, T. Yamamoto, H. Okino, O. Sakata, K. Shigeru
Journal of Applied Physics, **98** (2005) 094106
- 9105
Residual Stresses Distribution in the Sub-Surface Region of Shot-Peened Ceramics
Keisuke Tanaka, Y. Akiniwa, Y. Morishita
日本機械学会論文集A編 (Transactions of the Japan Society of Mechanical Engineers, Series A), **71** (2005) 1714-1721
- BL14B1 (共用分)**
- 7798
Crystallographic Features and Tetragonal Phase Stability of PbVO₃, a New Member of PbTiO₃ Family
Alexei A. Belik, M. Azuma, T. Saito, Y. Shimakawa, M. Takano
Chemistry of Materials, **17** (2005) 269-276
- 8904
High-pressure Induced Structural Changes in Metastable Ge₂Sb₂Te₅ Thin Films: An X-ray Absorption Study
Paul Fons, A. Kolobov, T. Junji, Y. Katayama
Nuclear Instruments and Methods in Physics Research Section B, **238** (2005) 160-162
- BL15XU (共用分)**
- 7924
X-ray Absorption Fine Structure Combined with X-ray Fluorescence Spectrometry. Part 15. Monitoring of Vanadium Site Transformations on Titania and in Mesoporous Titania by Selective Detection of the Vanadium K a_1 Fluorescence
Yasuo Izumi, F. Kiyotaki, N. Yagi, A. Vlaicu, A. Nisawa, S. Fukushima, H. Yoshitake, Y. Iwasawa
The Journal of Physical Chemistry B, **109** (2005) 14884-14891
- 8492
Site-Specific Valence-Band X-ray Photoelectron Spectra of a SrTiO₃ Single-Crystal by X-ray Standing Wave Technique
Tatsuo Fujii, H. Yoshikawa, M. Kimura, S. Fukushima
Solid State Communications, **136** (2005) 375-379
- BL19B2**
- 7203
Reaction Mechanism of a Ag_{36.4}Sb_{15.6}Sn₄₈ Nanocomposite Electrode for Advanced Li-Ion Batteries
Ewa Rünnebro, J. Yin, A. Kitano, M. Wada, S. Tanase, T. Sakai
Journal of the Electrochemical Society, **152** (2005) A152-A157

- 7555
Characterization of Amorphous Hafnium Silicate and Hafnium Aluminate Films by Grazing-Incidence X-ray Scattering
Ichiro Hirose, H. Kitajima, K. Torii
Transactions of the Materials Research Society of Japan, **30** (2005) 221-224
- 7557
XAFS Analysis of the Local Environment of Zinc in Dentine Treated with Zinc Compounds
Tutomu Takatsuka, J. Hirano, H. Matsumoto, T. Honma
European Journal of Oral Sciences, **113** (2005) 180-183
- 7624
Structural Analysis of Melt-Spun Mg_xPd_{100-x} ($x=70, 80, 85$ and 90) Amorphous Alloys
Sumiaki Nakano, S. Yamaura, A. Kitano, M. Sato, N. Umesaki, S. Uchinashi, H. Kimura, A. Inoue
Materials Transactions, **46** (2005) 379-381
- 7625
XAFS Analyses of Zinc Compound in Corrosion Product for Magnesium Alloy of Super Plastic Processing
Tetsuo Honma, H. Mori, K. Higashi, H. Okado, K. Maehara, I. Hirose, N. Umesaki
Physica Scripta, **T115** (2005) 567-569
- 7690
Short Range Structure of Lanthanum Chloride / Oxychloride Determined by EXAFS
Haruaki Matsuura, S. Watanabe, T. Kanuma, H. Akatsuka, T. Honma, N. Umesaki, A. Kajinami, A. Adya, R. Fujita
Physica Scripta, **T115** (2005) 294-296
- 8131
Spalling Stress in Oxidized Thermal Barrier Coatings Evaluated by X-ray Diffraction Method
Kenji Suzuki, K. Tanaka
Materials Science Forum, **490-491** (2005) 631-636
- 8133
Analysis on Residual Stress Distribution in Oxidized Thermal Barrier Coatings
Kenji Suzuki, T. Kubo, K. Tanaka, Y. Akiniwa
材料 (Journal of the Society of Materials Science, Japan), **54** (2005) 679-684
- 8141
Hydration Process for Calcium-Aluminate Cement within EVA Emulsion by SPring-8 Synchrotron Radiation X-ray Diffraction Method
Masaru Kotera, I. Matsuda, K. Miyashita, N. Adachi, H. Tamura
材料 (Journal of the Society of Materials Science, Japan), **54** (2005) 780-784
- 8289
Influence of X-ray Irradiation on Doped Europium in $BaMgAl_{10}O_{17}$ Studied by X-ray Absorption Fine Structure and X-ray Diffraction
Ichiro Hirose, T. Honma, K. Kato, N. Kijima, Y. Shimomura
Journal of the Society for Information Display, **13** (2005) 673-678
- 8361
Bubble Visualization and Electrolyte Dependency of Dissolving Hydrogen in Electrolyzed Water using Solid-Polymer-Electrolyte
Yoshinori Tanaka, K. Kikuchi, Y. Saihara, Z. Ogumi
Electrochimica Acta, **50** (2005) 5229-5236
- 8409
Characterization of Transparent Ferromagnetic Fe:ZnO Semiconductor Films Chemically Prepared from Aqueous Solutions
Tutomu Shinagawa, M. Izaki, H. Inui, K. Murase, Y. Awakura
Journal of the Electrochemical Society, **152** (2005) G736-G741
- 8462
XAFS Study of Europium Chloride at High Temperatures
Sou Watanabe, A. Adya, L. Rycerz, Adrian C. Barnes, M. Gaune-Escard, Y. Okamoto, H. Akatsuka, H. Matsuura
Progress in Nuclear Energy, **47** (2005) 632-638
- 8909
Analysis on Residual Stress in Electron Beam-Physical Vapor Deposited Thermal Barrier Coating using Hard Synchrotron X-ray
Kenji Suzuki, T. Kubo, S. Machiya, K. Tanaka, Y. Akiniwa
日本機械学会論文集A編 (Transactions of the Japan Society of Mechanical Engineers, Series A), **71** (2005) 1523-1529
- 8910
Measurement of Residual Stress Distribution by Strain Scanning Method using High Energy X-rays from Synchrotron Source

Kenji Suzuki, S. Machiya, Y. Akiniwa, K. Tanaka, T. Kurimura, H. Oguma
日本機械学会論文集A編 (Transactions of the Japan Society of Mechanical Engineers, Series A), **71** (2005) 1531-1537

9147

In-situ X-ray Diffraction Measurement of Electrodeposition Process in Molten Salts
Akihiko Kajinami, D. Shigehito, N. Umesaki, M. Sato, M. Myochin
Materials Science Forum, **502** (2005) 335-338

9193

Effect on Deoxidation of Doped Europium in Oxidized BaMgAl₁₀O₁₇
Tetsuo Honma, I. Hirosawa, N. Kijima, Y. Shimomura, H. Yamamoto
Journal of the Society for Information Display, **13** (2005) 679-683

9242

Aerodynamic Levitation Apparatus for Structure Study of High Temperature Materials Coupled with Debye-Scherrer Camera at BL19B2 of SPring-8
Ichiro Sakai, K. Murai, L. Jiang, N. Umesaki, T. Honma, A. Kitano
Journal of Electron Spectroscopy and Related Phenomena, **144-147** (2005) 1011-1013

9270

Hydrogen Sites Analysed X-ray Synchrotron Diffraction in Mg₇TiH₁₃₋₁₆ Made at Gigapascal High-Pressures
Ronnebro Ewa, D. Kyoji, A. Kitano, Y. Kitano, T. Sakai
Journal of Alloys and Compounds, **404-406** (2005) 68-72

9415

Guidelines for Developing Amide-Based Hydrogen Storage Materials
Yuko Nakamori, G. Kitahara, A. Ninomiya, M. Aoki, T. Noritake, S. Towata, S. Orim
Materials Transactions, **46** (2005) 2093-2097

BL19LXU (共用分)

8439

Charge Dynamics in Strongly Correlated One-Dimensional Cu-O Chain Systems Revealed by Inelastic X-ray Scattering
Shigemasa Suga, S. Imada, A. Higashiya, A. Shigemoto, S.

Kasai, M. Sing, H. Fujiwara, A. Sekiyama, A. Yamasaki, C. Kim, T. Nomura, J. Igarashi, M. Yabashi, T. Ishikawa
Physical Review B, **72** (2005) 081101(R)

BL20B2

7619

Three-Dimensional Structure of Dislocations in Silicon Determined by Synchrotron White X-ray Topography Combined with a Topo-Tomographic Technique
Seiji Kawado, T. Taishi, S. Iida, Y. Suzuki, Y. Chikaura, K. Kajiwara
Journal of Physics D : Applied Physics, **38** (2005) A17-A22

7812

Localized Morphometric Deformations of Small Airways and Alveoli in Intact Mouse Lungs under Quasi-Static Inflation
Toshihiro Sera, K. Uesugi, N. Yagi
Respiratory Physiology & Neurobiology, **147** (2005) 51-63

8206

Image-Based Mechanical Analysis of Dynamic Deformation and Damage Behaviors in an Aluminium Foam Using Synchrotron X-Ray Microtomography
Hiroyuki Toda, N. Kuroda, T. Ohgaki, M. Kobayashi, T. Akahori, M. Niinomi, T. Kobayashi, K. Uesugi, K. Makii, Y. Aruga
国際会議プロシーディングス (Proceedings of Porous Metals and Metal Foaming Technology), **JIMIC-4** (2005) 409-414

8467

Refraction-Enhanced Tomography of Mouse and Rabbit Lungs
Toshihiro Sera, K. Uesugi, N. Yagi
Medical Physics, **32** (2005) 2787-2792

8833

Visualization of Hydride in a Pure Titanium and Titanium-Aluminide by Refraction-Enhanced X-ray Imaging Technique
Kaoru Mizuno, H. Okamoto, K. Kajiwara, Y. Furuya
軽金属 (Journal of Japan Institute of Light Metals), **55** (2005) 678-681

BL20XU

8012

Performance Test of Fresnel Zone Plate with 50 nm Outermost Zone Width in Hard X-ray Region
Yoshio Suzuki, A. Takeuchi, H. Takano, H. Takenaka

Japanese Journal of Applied Physics, **44** (2005) 1994-1998

8203

Three-Dimensional Observation of Polymer Blend by X-ray Phase Tomography

Atsushi Momose, A. Fujii, H. Kadowaki, H. Jinnai

Macromolecules, **38** (2005) 7197-7200

8560

Hard X-ray Holographic Microscopy using Refractive Prism and Fresnel Zone Plate Objective

Yoshio Suzuki, A. Takeuchi

Review of Scientific Instruments, **76** (2005) 093702

9071

Synchrotron Radiation, X-ray Imaging, Holography, Particle Image Velocimetry

Tomomasa Uemura, S. Murata, S. Nishio, Y. Yamamoto, M. Iguchi, K. Uesugi

可視化情報学会誌 (Journal of the Visualization Society of Japan), **25** (2005) 203-206

9072

PIV Imaging for Multiphase Flow Measurement Utilizing Synchrotron Radiation X-ray

Tomomasa Uemura, S. Murata, Y. Yamamoto, S. Nishio, K. Uesugi

可視化情報学会誌 (Journal of the Visualization Society of Japan), **25** (2005) 205-208

9407

Two-Beam X-Ray Holography Using Prism Optics

Akihisa Takeuchi, Y. Suzuki

Japanese Journal of Applied Physics, **44** (2005) 3293-3298

BL22XU (共用分)

8538

Pressure-Induced Drastic Structural Change in Liquid CdTe

Tomohiro Kinoshita, T. Hattori, T. Narushima, K. Tsuji

Physical Review B, **72** (2005) 060102

BL23SU (共用分)

7586

Natural Circular Dichroism of Amino Acid Films Observed in Soft X-ray and VUV Region using Polarizing Undulator

Kazumichi Nakagawa, F. Kaneko, Y. Ohta, M. Tanaka, T.

Kitada, A. Agui, K. Fujii, A. Yokoya, K. Yagi-Watanabe, T. Yamada

Journal of Electron Spectroscopy and Related Phenomena, **144-147** (2005) 271-273

7587

Chemical Evolution of Amino Acid Induced by Soft X-ray with Synchrotron Radiation

Fusae Kaneko, M. Tanaka, S. Narita, T. Matsui, K. Nakagawa, A. Agui, K. Fujii, A. Yokoya

Journal of Electron Spectroscopy and Related Phenomena, **144-147** (2005) 291-294

8224

Electron Holography: A Maximum Entropy Reconstruction Scheme

Tomohiro Matsushita, A. Yoshigoe, A. Agui

Europhysics Letters, **71** (2005) 597-603

8713

Synchrotron Radiation Photoelectron Emission Study of SiO₂ Film Formed by Hyperthermal O-Atom Beam at Room Temperature

Masahito Tagawa, C. Sogoh, K. Yokota, S. Hachiue, A. Yoshigoe, Y. Teraoka

Japanese Journal of Applied Physics, **44** (2005) 8300-8304

BL25SU

6998

The Kondo Resonance in Electron Spectroscopy

James Allen

Journal of the Physical Society of Japan, **74** (2005) 34-48

7059

Development of Soft X-ray Magnetic Circular Dichroism Spectrometer using a 1.9 T Electromagnet at BL25SU of SPring-8

Tetsuya Nakamura, T. Muro, F. Guo, T. Matsushita, T. Wakita, T. Hirono, Y. Takeuchi, K. Kobayashi

Journal of Electron Spectroscopy and Related Phenomena, **144-147** (2005) 1035-1038

7060

Soft X-ray Magnetic Circular Dichroism Study of Al₄₀Mn₂₅Fe₁₅Ge₂₀ Decagonal Quasicrystal

Tetsuya Nakamura, Y. Yokoyama, N. Kamakura, T. Matsushita, T. Hirono, T. Muro, K. Kobayashi

- Nuclear Instruments and Methods in Physics Research Section B, 238 (2005) **251-254**
- 7166
Magnetism-Induced Symmetry Breaking in Photoelectron Diffraction Patterns
Angelika Chassé, W. Kuch, M. Kotsugi, X. Gao, F. Offi, S. Imada, S. Suga, H. Daimon, J. Kirschner
Physical Review B, **71** (2005) 014444
- 7530
Absence of Strong Correlation in $\text{Li}_2\text{Pd}_3\text{B}$
Takayoshi Yokoya, T. Muro, I. Hase, H. Takeya, K. Hirata, K. Togano
Physical Review B, **71** (2005) 092507
- 7826
Temperature Dependence of Spin and Orbital Magnetic Moments of Sm 4f Electrons in $(\text{Sm}, \text{Gd})\text{Al}_2$
Shan Qiao, A. Kimura, H. Adachi, K. Iori, K. Miyamoto, T. Xie, H. Namatame, M. Taniguchi, A. Tanaka, T. Muro, S. Imada, S. Suga
Journal of Electron Spectroscopy and Related Phenomena, **144-147** (2005) 749-752
- 7827
Cr 2p XMCD Spectra of Ferromagnetic $\text{Cr}_{1-\delta}\text{Te}$: A Configuration Interaction Picture
Koichirou Yaji, A. Kimura, M. Koyama, C. Hirai, H. Sato, K. Shimada, A. Tanaka, T. Muro, M. Taniguchi
Journal of Electron Spectroscopy and Related Phenomena, **144-147** (2005) 745-747
- 8028
Role of Ag Doping in $\text{Ba}_8\text{Si}_{46}$ Compounds
Nozomu Kamakura, T. Nakano, Y. Ikemoto, M. Usuda, H. Fukuoka, S. Yamanaka, S. Shin, K. Kobayashi
Physical Review B, **72** (2005) 014511
- 8060
Atomic Stereo-Photographs of Cu Single Crystal Taken by Stereo Atomscope
FangZhun Guo, F. Matui, T. Matsushita, H. Daimon
Journal of Electron Spectroscopy and Related Phenomena, **144-147** (2005) 1067-1070
- 8409
Characterization of Transparent Ferromagnetic $\text{Fe}:\text{ZnO}$ Semiconductor Films Chemically Prepared from Aqueous Solutions
Tsutomu Shinagawa, M. Izaki, H. Inui, K. Murase, Y. Awakura
Journal of the Electrochemical Society, **152** (2005) G736-G741
- 8420
Angle Resolved Photoemission Study of Quasi One-Dimensional SrCuO_2 by Soft X-ray Excitation
Akihiko Shigemoto, A. Sekiyama, S. Imada, A. Yamasaki, S. Kasai, T. Muro, Y. Saitoh, H. Eisaki, N. Tomita, N. Nasu, S. Suga
Journal of Electron Spectroscopy and Related Phenomena, **144-147** (2005) 349-350
- 8422
Bulk Electronic State of High- T_c Cuprate $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ Observed by High-Energy Angle Integrated and Resolved Photoemission Spectroscopy
Shuichi Kasai, A. Sekiyama, M. Tsunekawa, P. Ernst, A. Shigemoto, A. Yamasaki, A. Irizawa, S. Imada, M. Sing, T. Muro, T. Sasagawa, H. Takagi, S. Suga
Journal of Electron Spectroscopy and Related Phenomena, **144-147** (2005) 507-509
- 8423
Bulk Electronic Structures of n-Type Superconductor $\text{Nd}_{1.85}\text{Ce}_{0.15}\text{CuO}_4$ Probed by High Energy Angle-Resolved Photoemission Spectroscopy
Masanori Tsunekawa, A. Sekiyama, S. Kasai, A. Yamasaki, H. Fujiwara, M. Sing, A. Shigemoto, S. Imada, Y. Onose, Y. Tokura, T. Muro, S. Suga
Journal of Electron Spectroscopy and Related Phenomena, **144-147** (2005) 541-543
- 8424
Photoemission of Heavy Fermion Superconductor $\text{PrOs}_4\text{Sb}_{12}$ and Other Pr Compounds
Shin Imada, Y. Fukuda, A. Yamasaki, A. Sekiyama, H. Sugawara, H. Sato, A. Ochiai, S. Suga
Journal of Electron Spectroscopy and Related Phenomena, **144-147** (2005) 651-653
- 8426
High Resolution Soft X-ray Photoemission of Kondo Insulator YbB_{12}
Akihiko Shigemoto, S. Imada, A. Sekiyama, A. Yamasaki, A. Irizawa, T. Muro, Y. Saitoh, F. Iga, T. Takabatake, S. Suga
Journal of Electron Spectroscopy and Related Phenomena, **144-**

147 (2005) 671-673

8427

Temperature-Dependent Magnetic Circular Dichroism in Mn 2p X-ray Absorption Spectra of $\text{Nd}_{1-x}\text{Sr}_x\text{MnO}_3$

Atsushi Higashiya, H. Fujiwara, A. Sekiyama, K. Kounoike, A. Yamasaki, S. Imada, S. Suga, H. Kuwahara, Y. Tokura

Journal of Electron Spectroscopy and Related Phenomena, **144-147** (2005) 761-763

8428

High-Resolution Photoemission Study of $\text{Nd}_{1-x}\text{Sr}_x\text{MnO}_3$

Hidenori Fujiwara, A. Sekiyama, A. Higashiya, K. Kounoike, M. Tsunekawa, A. Yamasaki, A. Irizawa, S. Imada, T. Muro, K. Noda, H. Kuwahara, Y. Tokura, S. Suga

Journal of Electron Spectroscopy and Related Phenomena, **144-147** (2005) 807-809

8429

Bulk Sensitive Photoemission Studies of Metal-Insulator Transitions in V_6O_{13} and VO_2

Akihiko Shigemoto, S. Suga, A. Sekiyama, S. Imada, A. Yamasaki, A. Irizawa, S. Kasai, T. Muro, Y. Saitoh, Y. Ueda, K. Yoshimura

Journal of Electron Spectroscopy and Related Phenomena, **144-147** (2005) 837-839

8430

Hard and Soft X-ray Photoemission Spectroscopies of Ferromagnetic Sm_4As_3

Atushi Yamasaki, A. Sekiyama, M. Tsunekawa, S. Imada, A. Ochiai, C. Dallera, L. Braicovich, T. Lee, S. Suga

Journal of Electron Spectroscopy and Related Phenomena, **144-147** (2005) 617-619

8431

Bulk-Sensitive Photoemission Spectroscopy of Pr-Based Filled Skutterudites

Atushi Yamasaki, S. Imada, A. Sekiyama, M. Tsunekawa, T. Nanba, C. Dallera, L. Braicovich, T. Lee, H. Sugawara, H. Sato, C. Sekine, I. Shirovani, R. Settai, Y. Onuki, H. Harima, S. Suga

Journal of Electron Spectroscopy and Related Phenomena, **144-147** (2005) 621-623

8432

Soft X-ray Photoemission Study of Organic Conductors BEDT-TTF and BEDO-TTF Salts

Masanori Tsunekawa, A. Sekiyama, S. Imada, T. Saita, M. Maesato, H. Yamochi, G. Saito, S. Suga

Journal of Electron Spectroscopy and Related Phenomena, **144-147** (2005) 275-277

8433

High-Resolution Soft X-ray Photoemission Study of a Kondo Semiconductor and Related Compounds

Akira Sekiyama, Y. Fujita, M. Tsunekawa, S. Kasai, A. Shigemoto, S. Imada, T. Nanba, D. T. Adroja, T. Yoshino, F. Iga, T. Takabatake, S. Suga

Journal of Electron Spectroscopy and Related Phenomena, **144-147** (2005) 655-657

8434

Soft X-ray Photoemission Study of CaB_6

Akira Sekiyama, T. Sasabayasi, A. Higashiya, H. Fujiwara, S. Imada, K. Taniguchi, H. Takagi, T. Katsufuji, K. Kitazawa, S. Suga

Journal of Electron Spectroscopy and Related Phenomena, **144-147** (2005) 659-661

8435

Ferromagnetic Metal to Spin-Glass Insulator Transition in Pyrochlore-Type Molybdates $\text{R}_2\text{Mo}_2\text{O}_7$ Studied with Photoemission and XMCD

Shin Imada, A. Higashiya, M. Okazaki, M. Kashida, A. Sekiyama, Y. Taguchi, M. Iwama, K. Ogushi, Y. Tokura, S. Suga

Journal of Electron Spectroscopy and Related Phenomena, **144-147** (2005) 711-713

8436

Bulk Sensitive Photoelectron Spectroscopy with Soft and Hard X-rays : Soft X-ray ARPES toward High Resolution HAXPES

Atushi Yamasaki, A. Sekiyama, S. Imada, M. Tsunekawa, A. Shigemoto, A. Higashiya, S. Suga

Nuclear Instruments and Methods in Physics Research Section A, **547** (2005) 136-150

8437

Photoemission Spectroscopy of Sm_4As_3 Using Soft and Hard X-rays

Atushi Yamasaki, A. Sekiyama, S. Imada, M. Tsunekawa, C. Dallera, L. Braicovich, T. Lee, S. Suga

Journal of the Physical Society of Japan, **74** (2005) 2538-2543

- 8617
Revelation of Ni Magnetic Moment in GdNi Single Crystal by Soft X-ray Magnetic Circular Dichroism
Kazuo Yano, I. Umehara, K. Sato, Y. Alexander
Solid State Communications, **136** (2005) 67-70
- 8756
Interface Effects on the Magnetic Moment of Co and Cu in CoCu Granular Alloys
A. García Prieto, L. Fernandez-Gubieda, J. Chaboy, M. Laguna, T. Muro, T. Nakamura
Physical Review B, **72** (2005) 212403
- 8757
Origin of the Metallic Properties of Heavily Boron-Doped Superconducting Diamond
Takayoshi Yokoya, T. Nakamura, T. Matsushita, T. Muro, Y. Takano, M. Nagao, T. Takenouchi, H. Kawarada, T. Oguchi
Nature **438**, (2005) 647-950
- 8870
Dynamic Observation of Sn/Si(111) Surface Structures by Low Energy Electron Microscope
FangZhun Guo, K. Kobayashi, T. Kinoshita
e-Journal of Surface Science and Nanotechnology, **3** (2005) 305-352
- BL27SU**
- 6526
Introduction of Photoemission Electron Microscopes at SPring-8 for Nanotechnology Support
FangZhun Guo, T. Wakita, H. Shimizu, E. Bauer, T. Koshikawa, T. Yasui, T. Matsushita, K. Kobayashi
Journal of Physics: Condensed Matter, **17** (2005) S1363-S1370
- 6846
Three-Dimensional Electron-Ion Coincidence Momentum Imaging Spectroscopy using an Ultra-Fast Multi-Hit TDC System
Yuichiro Morishita, Y. Tamenori, M. Machida, M. Oura, H. Yamaoka, H. Toyokawa, A. De Fanis, M. Nagoshi, I. Koyano, K. Fujiwara, H. Chiba, G. Prümper, K. Ueda, I. Suzuki, N. Saito, H. Ohashi, M. Suzuki
Journal of Electron Spectroscopy and Related Phenomena, **144-147** (2005) 255-257
- 6904
Resonant Auger Decay of Above-Threshold Core-Excited H₂O
Maria Piancastelli, R. Sankari, S. Sorensen, A. De Fanis, H. Yoshida, M. Kitajima, H. Tanaka, K. Ueda
Physical Review A, **71** (2005) 010703
- 7090
Electronic Structure Characteristics of MBE (Molecular Beam Epitaxy)-Grown Diluted Magnetic Semiconductor Ga_{1-x}Cr_xN Films
Tomoyuki Takeuchi, M. Taguchi, Y. Harada, T. Tokushima, Y. Takata, A. Chainani, J. Kim, H. Makino, T. Yao, T. Tsukamoto, S. Shin, K. Kobayashi
Japanese Journal of Applied Physics, **44** (2005) L153-L155
- 7200
Variation in Resonant Auger Yields into the ¹G₄ · *nl* States of Kr across the L₃ Threshold
Kazumasa Okada, S. Nagaoka, M. Kosugi, A. Fujii, T. Ibuki, Y. Tamenori, H. Ohashi, Isao H. Suzuki, S. Samori, K. Ohno
Journal of Physics B: Atomic, Molecular and Optical Physics, **38** (2005) 421-431
- 7549
Manifestation of Auger Resonant Raman Effect on Double-Spectator Type Auger Transitions in the Ne[1s2p](³P)3p² ¹P Resonant Double Excitation Region
Masaki Oura, Y. Tamenori, T. Hayaishi, M. Matida, F. Koike
Journal of the Physical Society of Japan, **74** (2005) 1154-1159
- 7613
Inner-Shell Excitation of Ethanol Cluster at O K-edge
Yusuke Tamenori, K. Honma, T. Gejo, T. Yamaguchi, K. Okada, K. Tabayashi
Journal of Electron Spectroscopy and Related Phenomena, **144-147** (2005) 235-238
- 7731
Soft X-ray Spectroscopy of Diluted Magnetic Semiconductor Ga_{1-x}M_xN (M=Cr, Mn)
Tomoyuki Takeuchi, Y. Harada, T. Tokushima, Y. Takata, A. Chainani, J. Kim, P. Chen, H. Makino, T. Hanada, T. Yao, T. Yamamoto, T. Tsukamoto, K. Kobayashi, S. Shin
Journal of Electron Spectroscopy and Related Phenomena, **144-147** (2005) 707-710
- 7732
Study of Auger Decay Process Following Multielectron

- Excitation Accompanying F 1s Photoionization of CF₄
Masatake Machida, Y. Tamenori, M. Oura, T. Mukoyama
Journal of Electron Spectroscopy and Related Phenomena, **144-147** (2005) 219-222
- 7758
Ultrafast Dissociation of F 1s Excited SF₆ Probed by Electron Ion Momentum Coincidence Spectroscopy
Georg Prümper, Y. Tamenori, A. De Fanis, M. Kitajima, H. Tanaka, K. Ueda, M. Hoshino, U. Hergenbahn
Journal of Physics B: Atomic, Molecular and Optical Physics, **38** (2005) 1-10
- 7760
Ion Yield Spectroscopy of Sodium Following K-shell Photoexcitation
Hitoshi Yamaoka, T. Koizumi, M. Oura, Y. Tamenori, A. Terai, K. Takahiro, K. Kawatsura, T. Mukoyama
Journal of Electron Spectroscopy and Related Phenomena, **144-147** (2005) 75-78
- 7781
Intramolecular Auger-Electron Scattering in the Ultrafast Dissociation of CF₄ at the 1s → a*₁ Excitation
Georg Prümper, K. Ueda, Y. Tamenori, M. Kitajima, N. Kuze, H. Tanaka, C. Makochekanwa, M. Hoshino, M. Oura
Physical Review A, **71** (2005) 052704
- 7808
Excitation Mechanism of the Lowest-Energy Satellite Bands in F 1s Photoemission from SF₆
Katsutoshi Fujiwara, G. Prümper, A. De Fanis, Y. Tamenori, T. Tanaka, M. Kitajima, H. Tanaka, N. Saito, M. Oura, H. Shindo, A. A. Pavlychev, K. Ueda
Journal of Electron Spectroscopy and Related Phenomena, **144-147** (2005) 207-209
- 7809
The Excitation Mechanism of Satellite Bands in F 1s Photoemission of SiF₄
Katsutoshi Fujiwara, G. Prümper, A. De Fanis, Y. Tamenori, T. Tanaka, M. Kitajima, H. Tanaka, M. Oura, K. Ueda
Chemical Physics Letters, **402** (2005) 17-20
- 7828
C 1s and O 1s Photoelectron Spectra of Formaldehyde with Satellites: Theory and Experiment
K. Kuramoto, M. Ehara, H. Nakatsuji, M. Kitajima, H. Tanaka, A. De Fanis, Y. Tamenori, K. Ueda
Journal of Electron Spectroscopy and Related Phenomena, **142** (2005) 253-259
- 7831
Angle-Resolved Photoelectron Spectroscopy of the Satellite Bands Accompanying the O 1s Mainline of CO₂
Masamitsu Hoshino, T. Tanaka, M. Kitajima, A. De Fanis, H. Tanaka, A. A. Pavlychev, K. Ueda
Journal of Electron Spectroscopy and Related Phenomena, **144-147** (2005) 203-205
- 7834
Vibrationally Resolved Photoionization of the O K-shell of CO Molecule
S. K. Semenov, N. A. Cherepkov, A. De Fanis, Y. Tamenori, M. Kitajima, H. Tanaka, K. Ueda
Journal of Electron Spectroscopy and Related Phenomena, **144-147** (2005) 211-214
- 7838
High-Resolution Resonant Auger Spectroscopy of CF₄, SiF₄, and SF₆
Masashi Kitajima, A. De Fanis, K. Okada, H. Yoshida, M. Hoshino, H. Tanaka, K. Ueda
Journal of Electron Spectroscopy and Related Phenomena, **144-147** (2005) 199-202
- 7839
Effect of Vibrations on C 1s Photoemission in Formaldehyde in the Shape Resonance Region
Alberto De Fanis, D. A. Mistrov, M. Kitajima, M. Hoshino, H. Shindo, T. Tanaka, H. Tanaka, Y. Tamenori, A. A. Pavlychev, K. Ueda
Physical Review A, **71** (2005) 052510
- 7843
Vibronic Couplings in the C 1s-Rydberg and Valence Excitations of C₂H₂, Revealed by Angle-Resolved Photoion Yield Spectroscopy
Suomi Masuda, T. Gejo, M. Hiyama, N. Kosugi
Journal of Electron Spectroscopy and Related Phenomena, **144-147** (2005) 215-218
- 7911
Photofragmentation of C, F and S K-shell Excited CF₃SF₅ Studied by PEPICO and PIPICO Spectroscopy
Toshio Ibuki, Y. Shimada, R. Hashimoto, S. Nagaoka, M. Hino,

- K. Okada, I. H. Suzuki, Y. Morishita, Y. Tamenori
 Chemical Physics, **314** (2005) 119-126
- 8183
 3D-Ion-Momentum/High-Resolution-Electron Coincidence Measurements
 Georg Prümper, K. Ueda, U. Hergenhahn, A. De Fanis, Y. Tamenori, M. Kitajima, M. Hoshino, H. Tanaka
 Journal of Electron Spectroscopy and Related Phenomena, **144-146** (2005) 227-230
- 8185
 Investigation of Valence Inter-Multiplet Auger Transitions in Ne Following 1s Photoelectron Recapture
 Alberto De Fanis, G. Prümper, U. Hergenhahn, E. Kukk, T. Tanaka, M. Kitajima, C. Makochekanwa, M. Oura, S. Fritzsche, N. M. Kabachnik, K. Ueda
 Journal of Physics B: Atomic, Molecular and Optical Physics, **38** (2005) 2229-2243
- 8188
 A Study of Photoelectron Recapture Due to Post-Collision Interaction in Ne at the 1s Photoionization Threshold
 Uwe Hergenhahn, A. De Fanis, G. Prümper, A. K. Kazansky, N. M. Kabachnik, K. Ueda
 Journal of Physics B: Atomic, Molecular and Optical Physics, **38** (2005) 2843-2857
- 8190
 Site-Specific Fragmentation Caused by Si:1s Core-Level Photoionization of $F_3SiCH_2CH_2Si(CH_3)_3$ Vapor
 Shin-ichi Nagaoka, Y. Tamenori, M. Hino, T. Kakiuchi, J. Ohshita, K. Okada, T. Ibuki, I. H. Suzuki
 Chemical Physics Letters, **412** (2005) 459-463
- 8227
 Intermolecular Interaction by Apical Oxygen in Titanyl Phthalocyanine
 Yoshihisa Harada, T. Tokushima, Y. Takata, N. Kamakura, T. Takeuchi, K. Kobayashi, Y. Shirota, S. Shin
 Japanese Journal of Applied Physics, **44** (2005) L1147-L1149
- 8357
 Site-Specific Observation of the Valence Electronic Structure at SiO_2/Si Interface by Means of Soft X-ray Absorption and Emission Spectroscopy
 Yoshiyuki Yamashita, S. Yamamoto, K. Mukai, J. Yoshinobu, Y. Harada, T. Tokushima, Y. Takata, S. Shin, K. Akagi, S. Tsuneyuki
 表面科学 (Journal of the Surface Science Society of Japan), **26** (2005) 514-517
- 8501
 Vibrational Effect on the Fragmentation Dynamics of the C K-shell Excited CF_2CH_2
 Kazumasa Okada, Y. Yamana, T. Ibuki, A. Fujii, S. Nagaoka, K. Tabayashi, Y. Shimada, Y. Morishita, Y. Tamenori, I. Suzuki, K. Ohno
 Journal of Electron Spectroscopy and Related Phenomena, **144-147** (2005) 187-189
- 8571
 Site-Specific Fragmentation Caused by Core-Level Photoexcitation: Comparison between Si:1s and 2p Photoexcitations in $F_3SiCH_2CH_2Si(CH_3)_3$ Vapor
 Shin-ichi Nagaoka, A. Tamura, A. Fujii, K. Okada, T. Ibuki, I. Suzuki, H. Ohashi, Y. Tamenori
 International Journal of Mass Spectrometry, **247** (2005) 101-105
- 8606
 Molecular Frame Photoelectron Angular Distribution for Oxygen 1s Photoemission from CO_2 Molecules
 Norio Saito, K. Ueda, A. De Fanis, K. Kubozuka, M. Matida, I. Koyano, R. Dörner, A. Czasch, L. Schmidt, A. Cassimi, K. Wang, B. Zimmermann, V. McKoy
 Journal of Physics B: Atomic, Molecular and Optical Physics, **38** (2005) L277-L284
- 8607
 Vibrationally Resolved Molecular-Frame Angular Distribution of O 1s Photoelectrons from CO_2 Molecules
 Norio Saito, X. Liu, Y. Morishita, G. Prümper, M. Matida, M. Oura, H. Yamaoka, Y. Tamenori, I. Koyano, I. H. Suzuki, K. Ueda
 Physical Review A, **72** (2005) 042717
- 8611
 Graphitization of Tetrahedral Amorphous Carbon Films Induced by Core Electron Excitations
 Shijin Liang, Y. Harada, S. Shin, Y. Kitajima, Y. Mera, K. Maeda
 Japanese Journal of Applied Physics, **44** (2005) L1472-L1474
- 8694
 Shake-off of Loosely Bound Electrons in Auger Decays of Kr

2p Core Hole States

Isao Suzuki, Y. Morishita, Y. Tamenori, K. Okada, T. Oyama, K. Yamamoto, K. Tabayashi, T. Ibuki
Physical Review A, **72** (2005) 044702

8897

Introduction of Spectroscopic Photoemission and Low Energy Election Microscope in SPring-8
FangZhun Guo, K. Kobayashi, T. Kinoshita
表面科学 (Journal of the Surface Science Society of Japan), **26** (2005) 20-27

BL28B2

7377

Catalytic Performance and Elution of Pd in the Heck Reaction over Zeolite-Supported Pd Cluster Catalyst
Kazu Okumura, K. Nota, K. Yoshida, M. Niwa
Journal of Catalysis, **231** (2005) 245-253

7619

Three-Dimensional Structure of Dislocations in Silicon Determined by Synchrotron White X-ray Topography Combined with a Topo-Tomographic Technique
Seiji Kawado, T. Taishi, S. Iida, Y. Suzuki, Y. Chikaura, K. Kajiwara
Journal of Physics D: Applied Physics, **38** (2005) A17-A22

7864

Preparation of Polydiacetylene Single Crystals Based on Physical Vapor Growth Technique
Sadaharu Jo, H. Yoshikawa, A. Fujii, M. Takenaga
Synthetic Metals, **150** (2005) 223-226

8104

New Topographic Method of Detecting Microdefects Using Weak-Beam Topography with White X-Rays
Kentarou Kajiwara, S. Kimura, Y. Chikaura
Japanese Journal of Applied Physics, **44** (2005) 4211-4212

8392

White Beam X-ray Topographic Measurement of Spontaneous Strain in Strontium Titanate
Toru Ozaki, K. Kusunose, H. Sakaue, K. Kajiwara, H. Okamoto, Y. Chikaura, T. Suzuki
Nuclear Instruments and Methods in Physics Research Section B, **238** (2005) 255-258

8837

White Microbeam X-ray Spectro-Scattering Topography on the Domain Structure of Strontium Titanate
Kentarou Kajiwara, T. Ozaki, H. Sakaue, Y. Taketomi, Y. Chikaura
Nuclear Instruments and Methods in Physics Research Section B, **238** (2005) 248-250

8838

Quality of Anthracene Single Crystals Obtained by Physical Vapor Growth
Sadaharu Jo, H. Yoshikawa, A. Fujii, M. Takenaga
Japanese Journal of Applied Physics, **44** (2005) 4187-4188

8839

Friction Force Study on (010) Surface of Polydiacetylene Single Crystal
Sadaharu Jo, H. Yoshikawa, N. Nakashima, A. Fujii, M. Takenaga
Japanese Journal of Applied Physics, **44** (2005) 7568-7570

BL35XU

7441

Doping Dependence of Softening in the Bond-Stretching Phonon Mode of $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ ($0 < x < 0.29$)
Tatsuo Fukuda, J. Mizuki, K. Ikeuchi, K. Yamada, A. Baron, S. Tsutsui
Physical Review B, **71** (2005) 060501(R)

7673

Hard-Sphere-Like Dynamics in a Non-Hard-Sphere Liquid
Tullio Scopigno, R. Di Leonardo, L. Comez, A. Baron, D. Fioretto, G. Ruocco
Physical Review Letters, **94** (2005) 155301

7796

Phonon Density of States on DyB_6 Determined by ^{161}Dy Nuclear Resonant Inelastic Scattering
Hisao Kobayashi, S. Tsutsui, A. Baron, S. Kunii
Physica B, **359-361** (2005) 974-976

8313

Collective Dynamics of Supercritical Water Probed by Inelastic X-ray Scattering
Toshio Yamaguchi, K. Yoshida, N. Yamamoto, S. Hosokawa, M. Inui, A. Q. R. Baron, S. Tsutsui
Nuclear Instruments and Methods in Physics Research Section

B, **238** (2005) 146-149

BL37XU

7201

Three-Dimensional Atomic Image around Mn Atoms in Diluted Magnetic Semiconductor $Zn_{0.4}Mn_{0.6}Te$ Obtained by X-Ray Fluorescence Holography

Shinya Hosokawa, N. Happo, K. Hayashi, Y. Takahashi, T. Ozaki, K. Horii, E. Matsubara

Japanese Journal of Applied Physics, **44** (2005) 1011-1012

7600

Elemental Identification of a Three-Dimensional Environment by Complex X-ray Holography

Yukio Takahashi, K. Hayashi, E. Matsubara

Physical Review B, **71** (2005) 134107

7866

Atomic Imaging in EBCO Superconductor Films by an X-ray Holography System using a Toroidally Bent Graphite Analyzer

Tsuguhisa Sekioka, K. Hayashi, E. Matsubara, Y. Takahashi, T. Hayashi, M. Terasawa, T. Mitamura, A. Iwase, O. Michikami

Journal of Synchrotron Radiation, **12** (2005) 530-533

8055

Investigation of Individual Micrometer-Size Kosa Particle with On-Site Combination of Electron Microscope and Synchrotron X-ray Microscope

Yoichi Tanaka, Y. Taniguchi, D. Tanaka, M. Toyoda, H. Ishii, T. Tanabe, Y. Terada, S. Hayakawa, J. Kawai

Analytical Sciences, **21** (2005) 839-843

8316

X-ray Absorption Fine Structure Combined with X-ray Fluorescence Spectrometry. Improvement of Spectral Resolution at the Absorption Edges of 9 - 29 keV

Yasuo Izumi, H. Nagamori, F. Kiyotaki, D. Masih, T. Minato, E. Roisin, J. Candy, H. Tanida, T. Uruga

Analytical Chemistry, **77** (2005) 6969-6975

8386

Tin Accumulation in Spermatozoa of the Rats Exposed to Tributyltin Chloride by Synchrotron Radiation X-ray Fluorescence (SR-XRF) Analysis with Microprobe

Shino Takeda, Y. Nishimura, Y. Terada, S. Ueno, Y. Watanabe, M. Yukawa

Nuclear Instruments and Methods in Physics Research Section

B, **231** (2005) 333-337

8688

Differentiation, Distribution, and Chemical State of Intracellular Trace Elements in LAD2 Mast Cell Line

Kazuko Nakashima, T. Shirakawa, T. Takeuchi

Biological Trace Element Research, **108** (2005) 105-114

8730

Reconstruction of Atomic Images from Multiple-Energy X-ray Holograms of FePt Films by the Scattering Pattern Matrix Method

Yukio Takahashi, E. Matsubara, Y. Kawazoe, K. Takanashi, T. Shima

Applied Physics Letters, **87** (2005) 1-3

9373

X-Ray Fluorescence Holography of 0.078 wt% Copper in Silicon Steel

Kouichi Hayashi, T. Hayashi, Y. Takahashi, E. Matsubara, S. Suzuki

Nuclear Instruments and Methods in Physics Research Section B, **238** (2005) 192-195

9509

Nondestructive Analysis of Silver in Gold Foil Using Synchrotron Radiation X-ray Fluorescence Spectrometry

Masaaki Kasamatsu, Y. Suzuki, T. Nakanishi, O. Shimoda, Y. Nishiwaki, N. Miyamoto, S. Suzuki

Analytical Sciences, **21** (2005) 785-787

9510

Forensic Discrimination of Sheet Glass by a Refractive-Index Measurement and Elemental Analysis with Synchrotron Radiation X-ray Fluorescence Spectrometry

Yasuhiro Suzuki, M. Kasamatsu, S. Suzuki, T. Nakanishi, M. Takatsu, S. Muratsu, O. Shimoda, S. Watanabe, Y. Nishiwaki, N. Miyamoto

Analytical Sciences, **21** (2005) 855-859

BL38B1

7149

Crystal Structure of the Alginate (Poly α -L-gulonate) Lyase from *Corynebacterium* sp. at 1.2Å Resolution

Takuo Osawa, T. Muramatsu, M. Kimura, Y. Matsubara, Y. Kakuta

Journal of Molecular Biology, **345** (2005) 1111-1118

- 7169
Crystal Structure and Functional Implications of *Pyrococcus furiosus* Hef Helicase Domain Involved in Branched DNA Processing
Tatsuya Nishino, K. Komori, D. Tsuchiya, Y. Ishino, K. Morikawa
Structure, **13** (2005) 143-153
- 7172
Identification of Single Mn²⁺ Binding Sites in the Mutant Proteins of *E. coli* RNase HI at Glu48 and/or Asp134 by X-ray Crystallography
Yasuo Tsunaka, K. Takano, H. Matsumura, Y. Yamagata, S. Kanaya
Journal of Molecular Biology, **345** (2005) 1171-1183
- 7311
Crystal Structure of a Biologically Functional Form of PriB from *Escherichia coli* Reveals a Potential Single-Stranded DNA-Binding Site
Seijirou Shioi, Y. Abe, T. Ose, K. Maenaka, M. Shiroishi, D. Kohda, T. Katayama, T. Ueda
Biochemical and Biophysical Research Communications, **326** (2005) 766-776
- 7362
Responses of GafChromic Films for Distribution of Extremely High Doses from Synchrotron Radiation
Nobuteru Nariyama
Applied Radiation and Isotopes, **62** (2005) 693-697
- 7480
Structural Basis for Recruitment of Human Flap Endonuclease 1 to PCNA
Shigeru Sakurai, K. Kitano, H. Yamaguchi, K. Hamada, K. Okada, K. Fukuda, M. Uchida, E. Ohtsuka, H. Morioka, T. Hakoshima
The EMBO Journal, **24** (2005) 683-693
- 7566
Crystal Structures of RsbQ, a Stress-Response Regulator in *Bacillus subtilis*
Tomonori Kaneko, N. Tanaka, T. Kumasaka
Protein Science, **14** (2005) 558-565
- 7625
XAFS Analyses of Zinc Compound in Corrosion Product for Magnesium Alloy of Super Plastic Processing
Tetsuo Honma, H. Mori, K. Higashi, H. Okado, K. Maehara, I. Hirose, N. Umesaki
Physica Scripta, **T115** (2005) 567-569
- 7682
Structural Analysis of Threonine 342 Mutants of Soybean β -Amylase: Role of a Conformational Change of the Inner Loop in the Catalytic Mechanism
You-Na Kang, A. Tanabe, M. Adachi, S. Utsumi, B. Mikami
Biochemistry, **44** (2005) 5106-5116
- 7683
Crystallization and Preliminary X-ray Analysis of Alginate Lyases A1-II and A1-II' from *Sphingomonas* sp.A1
Masayuki Yamasaki, K. Ogura, S. Moriwaki, W. Hashimoto, K. Murata, B. Mikami
Acta Crystallographica Section F, **61** (2005) 288-290
- 7688
NDA-binding Mode and the Significance of Intersubunit Contact Revealed by the Crystal Structure of *Mycobacterium tuberculosis* NDA Kinase-NDA Complex
Shigetaru Mori, M. Yamasaki, Y. Maruyama, K. Momma, S. Kawai, W. Hashimoto, B. Mikami, K. Murata
Biochemical and Biophysical Research Communications, **327** (2005) 500-508
- 7812
Localized Morphometric Deformations of Small Airways and Alveoli in Intact Mouse Lungs under Quasi-Static Inflation
Toshihiro Sera, K. Uesugi, N. Yagi
Respiratory Physiology & Neurobiology, **147** (2005) 51-63
- 7981
Crystallization and Preliminary X-ray Diffraction Study of BchU, a Methyltransferase from *Chlorobium tepidum* Involved in Bacteriochlorophyll *c* Biosynthesis
Jiro Harada, K. Wada, H. Yamaguchi, H. Oh-oka, H. Tamiaki, K. Fukuyama
Acta Crystallographica Section F, **61** (2005) 712-714
- 8070
Structural Studies on a Human DEAD-box RNA Helicase, rck/p54
Tutomu Matsui
Doctor Thesis (Tokyo Institute of Technology), (2005) 1-82

- 8116
Conformational Dynamics of Complementary Determining Region H3 of an Anti-Dansyl Fv Fragment in the Presence of Its Hapten
Masayoshi Nakasako, T. Oka, M. Mashumo, H. Takahashi, I. Shimada, Y. Yamaguchi, K. Kato, Y. Arata
Journal of Molecular Biology, **351** (2005) 627-640
- 8210
Crystal Structure of Acid Blue and Alkaline Purple Forms of Bacteriorhodopsin
Tsutomu Kouyama, H. Okumura, M. Murakami
Journal of Molecular Biology, **351** (2005) 481-495
- 8348
Structural Mechanism for Coordination of Proofreading and Polymerase Activities in Archaeal DNA Polymerases
Toshihiro Kuroita, H. Matsumura, N. Yokota, M. Kitabayashi, H. Hashimoto, T. Inoue, T. Imanaka, Y. Kai
Journal of Molecular Biology, **351** (2005) 291-298
- 8352
Mechanism of the Conversion of Xanthine Dehydrogenase to Xanthine Oxidase
Tomoko Nishino, K. Okamoto, T. Matsumura, B. T. Eger, E. F. Pai, T. Nishino
The Journal of Biological Chemistry, **280** (2005) 24888-24894
- 8409
Characterization of Transparent Ferromagnetic Fe:ZnO Semiconductor Films Chemically Prepared from Aqueous Solutions
Tsutomu Shinagawa, M. Izaki, H. Inui, K. Murase, Y. Awakura
Journal of the Electrochemical Society, **152** (2005) G736-G741
- 8467
Refraction-Enhanced Tomography of Mouse and Rabbit Lungs
Toshihiro Sera, K. Uesugi, N. Yagi
Medical Physics, **32** (2005) 2787-2792
- 8484
Crystallization of a 2:2 Complex of Granulocyte-Colony Stimulating Factor (GCSF) with the Ligand-Binding Region of GCSF Receptor
Eijiro Honjo, T. Tamada, T. Koshiba, S. Mine, Y. Matsukura, Y. Maeda, T. Okamoto, M. Ishibashi, M. Tokunaga, R. Kuroki
Acta Crystallographica Section F, **61** (2005) 788-790
- 8486
Crystallization of Δ^1 -tetrahydrocannabinolic Acid (THCA) Synthase from *Cannabis sativa*
Yoshinari Shoyama, A. Takeuchi, F. Taura, T. Tamada, M. Adachi, R. Kuroki, Y. Shoyama, S. Morimoto
Acta Crystallographica Section F, **61** (2005) 799-801
- 8600
Structure of Aluminium-Bound Ovotransferrin at 2.15 Å Resolution
Kimihiro Mizutani, B. Mikami, S. Aibara, M. Hirose
Acta Crystallographica Section D, **61** (2005) 1636-1642
- 8705
Structure of ATP-dependent Phosphoenolpyruvate Carboxykinase from *Thermus thermophilus* HB8 Showing the Structural Basis of Induced Fit and Thermostability
Michihiro Sugahara, N. Ohshima, Y. Ukita, M. Sugahara, N. Kunishima
Acta Crystallographica Section D, **61** (2005) 1500-1507
- 9202
Overexpression, Purification and Crystallization of an Archaeal DNA Ligase from *Pyrococcus furiosus*
Hirokazu Nishida, D. Tsuchiya, Y. Ishino, K. Morikawa
Acta Crystallographica Section F, **61** (2005) 1100-1102
- 9433
Crystallization and Preliminary X-ray Crystallographic Analysis of Extracellular Giant Hemoglobin from Pogonophoran *Oligobranchia mashikoi*
Nobutaka Numoto, T. Nakagawa, A. Kita, Y. Sasayama, Y. Fukumori, K. Miki
Biochimica et Biophysica Acta, **1750** (2005) 103-117
- 9435
Structure of an Extracellular Giant Haemoglobin of the Gutless Beard Worm *Oligobranchia mashikoi*
Nobutaka Numoto, T. Nakagawa, A. Kita, Y. Sasayama, Y. Fukumori, K. Miki
Proceedings of the National Academy of Sciences of the United States of America, **102** (2005) 14521-14526
- BL39XU**
- 7244
Probing the Magnetic Polarizations of Dlocalized Electrons in Exchange-coupled Co/CuNi Multilayers by X-ray Magnetic

- Circular Dichroism Measurements
Kotaro Ishiji, H. Yamasaki, T. Masui, H. Hashizume
Journal of the Physical Society of Japan, **74** (2005) 753-757
- 7572
Investigation of Structural and Electronic Properties in Ru Perovskite Oxides by XAFS Measurements
Masaichiro Mizumaki, K. Yoshii, Y. Hinatsu, T. Doi, T. Uruga
Physica Scripta, **T115** (2005) 513-515
- 7879
Depth-Selective Measurements of Induced Magnetic Polarization in Cu Layers of Gd/Cu Multilayers by ¹¹⁹Sn Mössbauer Spectroscopy
Takuo Ohkouchi, N. Hosoito, K. Mibu
Journal of Physics: Condensed Matter, **17** (2005) 4023-4033
- 8226
Revealing Fe Magnetism in Lanthanide-Iron Intermetallic Compounds by Tuning the Rare-Earth L_{2,3}-edge X-ray Absorption Edges
Maria Angeles Laguna-Marco, J. Chaboy, C. Piquer, H. Maruyama, N. Ishimatsu, N. Kawamura, M. Takagaki, M. Suzuki
Physical Review B, **72** (2005) 052412
- 8257
Depth Profile of Spin and Orbital Magnetic Moments in a Subnanometer Pt Film on Co
Motohiro Suzuki, H. Muraoka, Y. Inaba, H. Miyagawa, N. Kawamura, T. Shimatsu, H. Maruyama, N. Ishimatsu, Y. Isohama, Y. Sonobe
Physical Review B, **72** (2005) 054430
- 8258
Magnetic Moment in the Top Pt Layer of Co/Pt Bilayers
Motohiro Suzuki, H. Miyagawa, N. Kawamura, H. Muraoka, Y. Inaba, T. Shimatsu, Y. Sonobe, Y. Isohama, N. Nakamura, N. Ishimatsu, H. Maruyama
Physica Scripta, **T115** (2005) 580-582
- 8288
Element-Selective Thermal X-ray Magnetic Circular Dichroism Study through the Magnetic Compensation Temperature of Ho₆Fe₂₃
Maria Angeles Laguna-Marco, J. Chaboy, H. Maruyama
Physical Review B, **72** (2005) 094408
- 8541
Ga Magnetic Polarization in Mn₃GaC under High Pressure Probed by Ga K-Edge XMCD
Naomi Kawamura, N. Ishimatsu, M. Isshiki, Y. Komatsu, H. Maruyama
Physica Scripta, **T115** (2005) 591-593
- 9374
Inverse Fourier Analysis in X-ray Fluorescence Holography
Kouichi Hayashi
Physical Review B, **71** (2005) 224104
- 9422
A Case Study of the Size-Resolved Individual Particles Collected at a Ground-Based Site on the West Coast of Japan during an Asian Dust Storm Event
Chang-Jin Ma, S. Tohno, M. Kasahara
Atmospheric Environment, **39** (2005) 739-747
- BL40B2**
- 7085
Light-Induced Global Structural Changes in Phytochrome A Regulating Photomorphogenesis in Plants
Masayoshi Nakasako, T. Iwata, K. Inoue, S. Tokutomi
The FEBS Journal, **272** (2005) 603-612
- 7154
Solvent/Gelator Interactions and Supramolecular Structure of Gel Fibers in Cyclic Bis-Urea/Primary Alcohol Organogels
Yeonhwan Jeong, K. Hanabusa, H. Masunaga, I. Akiba, K. Miyoshi, S. Sakurai, K. Sakurai
Langmuir, **21** (2005) 586-594
- 7282
Small-Angle X-ray Scattering from a Dual-Component Organogel to Exhibit a Charge Transfer Interaction
Yeonhwan Jeong, A. Friggeri, I. Akiba, H. Masunaga, K. Sakurai, S. Sakurai, S. Okamoto, K. Inoue, S. Shinkai
Journal of Colloid and Interface Science, **283** (2005) 113-122
- 7297
Quaternary Structure of LOV-Domain Containing Polypeptide of *Arabidopsis* FKF1 Protein
Masayoshi Nakasako, D. Matsuoka, K. Zikihara, S. Tokutomi
FEBS Letters, **579** (2005) 1067-1071

- 7384
Direct Detection of Effective Glass Transitions in Miscible Polymer Blends by Temperature-Modulated Differential Scanning Calorimetry
Yohei Miwa, K. Yamamoto, K. Usami, M. Sakaguchi, M. Sakai, S. Shimada
Macromolecules, **38** (2005) 2355-2361
- 7585
Crystal Structure of the Terminal Oxygenase Component of Cumene Dioxygenase Component of *Pseudomonas fluorescens* IP01
Xuesong Dong, S. Fushinobu, E. Fukuda, T. Terada, S. Nakamura, K. Shimizu, H. Nojiri, T. Omori, H. Shoun, T. Wakagi
Journal of Bacteriology, **187** (2005) 2483-2490
- 7630
Small-angle X-ray Scattering from Multi-walled Carbon Nanotubes (CNTs) Dispersed in Polymeric Matrix
Toru Inada, H. Masunaga, S. Kawasaki, M. Yamada, K. Kobori, K. Sakurai
Chemistry Letters, **34** (2005) 524-525
- 7711
Probing the Role of Asp-120(81) of Metallo- β -lactamase (IMP-1) by Site-directed Mutagenesis, Kinetic Studies, and X-ray Crystallography
Yoshihiro Yamaguchi, T. Kuroki, H. Yasuzawa, T. Higashi, W. Jin, A. Kawanami, Y. Yamagata, Y. Arakawa, M. Goto, H. Kurosaki
The Journal of Biological Chemistry, **280** (2005) 20824-20832
- 7741
Structural Analysis of Cell Membrane Complex of a Hair Fibre by Micro-Beam X-ray Diffraction
Noboru Ohta, T. Oka, K. Inoue, N. Yagi, S. Kato, I. Hatta
Journal of Applied Crystallography, **38** (2005) 274-279
- 7877
Crystallization and Preliminary X-ray Analysis of Methylthioribose-1-phosphate Isomerase from *Bacillus subtilis*
Haruka Tamura, T. Inoue, H. Matsumura, H. Ashida, Y. Saito, A. Yokota, Y. Kai
Acta Crystallographica Section F, **61** (2005) 595-598
- 7906
Conformational Changes in the α -Subunit Coupled to Binding of the β_2 -Subunit of Tryptophan Synthase from *Escherichia coli*: Crystal Structure of the Tryptophan Synthase α -Subunit Alone
Kazuya Nishio, Y. Morimoto, M. Ishizuka, K. Ogasahara, T. Tsukihara, K. Yutani
Biochemistry, **44** (2005) 1184-1192
- 8054
Position and Orientation of Phalloidin in F-actin Determined by X-ray Fiber Diffraction Analysis
Toshiro Oda, K. Namba, Y. Maeda
Biophysical Journal **88** (2005) 2727-2736
- 8180
Structure and Thermal History Dependant Phase Behavior of Hydrated Synthetic Sphingomyelin Analogue : 1,2-dimyristamido-1,2-deoxyphosphatidylcholine
Hiroshi Takahashi, Y. Okumura, J. Sunamoto
Biochimica et Biophysica Acta - Biomembranes, **1713** (2005) 40-50
- 8193
Crystal Structure of *Echerichia coli* YfhJ Protein, a Member of the ISC Machinery Involved in Assembly of Iron-Sulfur Clusters
Yoshimitsu Shimomura, Y. Takahashi, Y. Kakuta, K. Fukuyama
Proteins: Structure, Function, and Bioinformatics, **60** (2005) 566-569
- 8200
Role of Adsorbed Iodine into Poly(Vinyl Alcohol) Films Drawn in KI/I₂ Solution
Tsukasa Miyazaki, S. Katayama, E. Funai, Y. Tsuji, S. Sakurai
Polymer, **46** (2005) 7436-7442
- 8250
Structure of the Complex of Porcine Pancreatic Elastase with a Trimacrocytic Peptide Inhibitor FR901451
Takayoshi Kinoshita, T. Kitatani, M. Warizaya, T. Tada
Acta Crystallographica Section F, **61** (2005) 808-811
- 8346
Structual and Mutational Analysis of *Trypanosoma brucei* Prostaglandin H₂ Reductase Provides Insight into the Catalytic Mechanism of Aldo-ketoreductases
Bruno Kilunga Kubata, T. Inoue, Y. Okano, Z. Kabutu, S. K. Martin, M. Lazarus, M. Duzenko, Y. Sumii, Y. Kusakari, H.

- Matsumura, Y. Kai, S. Sugiyama, K. Inaka, T. Inui, Y. Urade
The Journal of Biological Chemistry, **280** (2005) 26371-26383
- 8352
Mechanism of the Conversion of Xanthine Dehydrogenase to Xanthine Oxidase
Tomoko Nishino, K. Okamoto, T. Matsumura, B. T. Eger, E. F. Pai, T. Nishino
The Journal of Biological Chemistry, **280** (2005) 24888-24894
- 8364
Structural Basis for Thermostability of End-1,5- α -L-Arabinanase from *Bacillus thermodenitrificans* TS-3
Asako Yamaguchi, T. Tada, K. Wada, T. Nakaniwa, T. Kitatani, Y. Sogabe, T. Sakai, M. Takao, K. Nishimura
The Journal of Biochemistry, **137** (2005) 587-592
- 8370
Unexpected Puckering of Hydroxyproline in the Guest Triplets, Hyp-Pro-Gly and Pro-alloHyp-Gly Sandwiched between Pro-Pro-Gly Sequence
Kenji Okuyama, N. Jiravanichanun, C. Hongo, G. Wu, K. Noguchi, N. Nishino, T. Silva
ChemBioChem, **6** (2005) 1184-1187
- 8371
Repetitive Interactions Observed in the Crystal Structure of a Collagen-Model Peptide, [(Pro-Pro-Gly)₉]₃
Chizuru Hongo, N. Keiichi, O. Kenji, Y. Tanaka, N. Nishino
The Journal of Biochemistry, **138** (2005) 135-144
- 8406
Crystal Structure of M-Ras Reveals a GTP-bound "Off" State Conformation of Ras Family Small GTPase
Min Ye, F. Shima, S. Muraoka, J. Liao, H. Okamoto, M. Yamamoto, A. Tamura, N. Yagi, T. Ueki, T. Kataoka
The Journal of Biological Chemistry, **280** (2005) 31267-31275
- 8461
Molecular and Crystal Structure of Poly(Tetramethylene Adipate) Alpha Form Based on Synchrotron X-ray Fiber Diffraction
Keiichi Noguchi, H. Kondo, Y. Ichikawa, K. Okuyama, J. Washiyama
Polymer, **46** (2005) 10823-10830
- 8489
SAXS, SANS and NSE Studies on "Unbound State" in DPPC/Water/CaCl₂ System
Norifumi Yamada, H. Seto, T. Takeda, M. Nagao, Y. Kawabata, K. Inoue
Journal of the Physical Society of Japan, **74** (2005) 2853-2859
- 8568
Inclusion of DNA into Organic Gelator Fibers Made of Amphipathic Molecules and Its Controlled Release
Ryouji Karinaga, Y. Jeong, S. Shinkai, K. Kaneko, K. Sakurai
Langmuir, **21** (2005) 9398-9401
- 8576
Transition from a Normal to Inverted Cylinder for an Amidine-Bearing Lipid/pDNA Complex and Its Excellent Transfection
Kazunori Koiwai, K. Tokuhisa, R. Karinaga, Y. Kudo, S. Kusuki, Y. Takeda, K. Sakurai
Bioconjugate Chemistry, **16** (2005) 1349-1351
- 9432
Structure of a Cynobacterial BLUF Protein, T110078, Containing a Novel FAD-binding Blue Light Sensor Domain
Akiko Kita, K. Okajima, Y. Morimoto, M. Ikeuchi, K. Miki
Journal of Molecular Biology, **349** (2005) 1-9
- 9540
Structural Characteristics of Xyloglucan - Congo Red Aggregates as Observed by Small Angle X-ray Scattering
Yoshiaki Yuguchi, T. Hirotsu, J. Hosokawa
Cellulose, **12** (2005) 469-477
- BL40XU**
- 6985
Natural Water Specimen Preparation for TXRF Analysis Using a Johansson Wavelength-Dispersive Spectrometer
Sandor Kurunczi, K. Sakurai
X-Ray Spectrometry, **34** (2005) 56-58
- 7096
Structural Transition of Bacteriorhodopsin is Preceded by Deprotonation of Schiff Base: Microsecond Time-Resolved X-ray Diffraction Study of Purple Membrane
Toshihiko Oka, K. Inoue, M. Kataoka, N. Yagi
Biophysical Journal, **88** (2005) 436-442

- 7307
A Secondary Electron Emission Detector for Measuring the Intensity of Synchrotron Radiation
Nobuteru Nariyama, S. Taniguchi
Review of Scientific Instruments, **76** (2005) 033302
- 7442
Site Occupancy Determination for Manganese in Some Spinel-Type Oxides by $K\beta$ X-Ray Fluorescence Spectra
Hiromi Eba, K. Sakurai
Journal of Solid State Chemistry, **178** (2005) 370-375
- 7671
X-ray Microdiffraction and Conventional Diffraction from Frozen-Hydrated Biological Specimens
Hiroyuki Iwamoto, K. Inoue, T. Fujisawa, N. Yagi
Journal of Synchrotron Radiation, **12** (2005) 479-483
- 7724
"Green" Nano-Composites Prepared from Natural Rubber and *In Situ* Silica
Yuko Ikeda
Kautschuk Gummi Kunststoffe, **58** (2005) 455-460
- 7741
Structural Analysis of Cell Membrane Complex of a Hair Fibre by Micro-Beam X-ray Diffraction
Noboru Ohta, T. Oka, K. Inoue, N. Yagi, S. Kato, I. Hatta
Journal of Applied Crystallography, **38** (2005) 274-279
- 8156
Studies of the Structural Change during Deformation in *Cryptomeria japonica* by Time-Resolved Synchrotron Small-Angle X-ray Scattering
Tomoaki Komiyama, H. Suzuki, J. Sugiyama
Journal of Structural Biology, **151** (2005) 1-11
- 8158
Structural Changes of Actin-Bound Myosin Heads after a Quick Length Change in Frog Skeletal Muscle
Naoto Yagi, H. Iwamoto, J. Wakayama, K. Inoue
Biophysical Journal, **89** (2005) 1150-1164
- BL41XU**
- 7131
Crystal Structure of Leucyl-tRNA Synthetase from the Archaeon *Pyrococcus horikoshii* Reveals a Novel Editing Domain Orientation
Ryuya Fukunaga, S. Yokoyama
Journal of Molecular Biology, **346** (2005) 57-71
- 7134
Crystallization of Leucyl-tRNA Synthetase Complexed with tRNA^{Leu} from the Archaeon *Pyrococcus horikoshii*
Ryuya Fukunaga, R. Ishitani, O. Nureki, S. Yokoyama
Acta Crystallographica Section F, **61** (2005) 30-32
- 7172
Identification of Single Mn²⁺ Binding Sites in the Mutant Proteins of *E. coli* RNase HI at Glu48 and/or Asp134 by X-ray Crystallography
Yasuo Tsunaka, K. Takano, H. Matsumura, Y. Yamagata, S. Kanaya
Journal of Molecular Biology, **345** (2005) 1171-1183
- 7286
Crystallization and Preliminary X-ray Analysis of α -xylosidase from *Escherichia coli*
Momoyo Kitamura, T. Ose, M. Okuyama, H. Watanabe, M. Yao, H. Mori, A. Kimura, I. Tanaka
Acta Crystallographica Section F, **61** (2005) 178-179
- 7295
Crystallization and Preliminary Crystallographic Analysis of the Cellulose Biosynthesis-Related Protein CMCax from *Acetobacter xylinum*
Shin Kawano, Y. Yasutake, K. Tajima, Y. Satoh, M. Yao, I. Tanaka, M. Munetaka
Acta Crystallographica Section F, **61** (2005) 252-254
- 7334
Structure of the Type I L-asparaginase from the Hyperthermophilic archaea *Pyrococcus horikoshii* at 2.16 Å Resolution
Min Yao, Y. Yasutake, H. Morita, I. Tanaka
Acta Crystallographica Section D, **61** (2005) 294-301
- 7463
Crystal Structure of the Co-Chaperonin Cpn10 from *Thermus thermophilus* HB8
Nobutaka Numoto, A. Kita, K. Miki
Proteins: Structure, Function, and Bioinformatics, **58** (2005) 498-500

- 7543
Crystal Structure of Dimeric Heme Oxygenase-2 from *Synechocystis* sp. PCC 6803 in Complex with Heme
Masakazu Sugishima, Y. Hagiwara, X. Zhang, T. Yoshida, C. T. Migita, K. Fukuyama
Biochemistry, **44** (2005) 4257-4266
- 7568
Crystallization and Preliminary X-ray Studies on the Reaction Center-Light-Harvesting 1 Core Complex from *Rhodospseudomonas viridis*
Shinya Saijo, T. Sato, T. Kumasaka, N. Tanaka, K. Harata, T. Odahara
Acta Crystallographica Section F, **61** (2005) 83-86
- 7641
Structural Insights into the Monosaccharide Specificity of *Escherichia coli* Rhamnose Mutarotase
Kyoung-Seo Ryu, J. Kim, S. Cho, D. Park, C. Park, H. Cheong, J. Lee, B. Choi
Journal of Molecular Biology, **349** (2005) 153-162
- 7642
Crystal Structure of CD14 and Its Implications for Lipopolysaccharide Signaling
Jung-In Kim, C. Lee, M. Jin, C. Lee, S. Paik, H. Lee, J. Lee
The Journal of Biological Chemistry, **280** (2005) 11347-11351
- 7682
Structural Analysis of Threonine 342 Mutants of Soybean β -Amylase : Role of a Conformational Change of the Inner Loop in the Catalytic Mechanism
You-Na Kang, A. Tanabe, M. Adachi, S. Utsumi, B. Mikami
Biochemistry, **44** (2005) 5106-5116
- 7691
Crystallization and Preliminary Crystallographic Analysis of Endo-1,3- β -Glucanase from *Arthrobacter* sp.
Zhongcun Pang, Y. Kang, M. Ban, M. Oda, R. Kobayashi, M. Onishi, B. Mikami
Acta Crystallographica Section F, **61** (2005) 68-70
- 7693
Crystal Structure of the tRNA 3' Processing Endoribonuclease tRNase Z from *Thermotoga maritima*
Ryohei Ishii, A. Minagawa, H. Takaku, M. Takagi, M. Nashimoto, S. Yokoyama
The Journal of Biological Chemistry, **280** (2005) 14138-14144
- 7711
Probing the role of Asp-120(81) of Metallo- β -lactamase (IMP-1) by Site-directed Mutagenesis, Kinetic Studies, and X-ray Crystallography
Yoshihiro Yamaguchi, T. Kuroki, H. Yasuzawa, T. Higashi, W. Jin, A. Kawanami, Y. Yamagata, Y. Arakawa, M. Goto, H. Kurosaki
The Journal of Biological Chemistry, **280** (2005) 20824-20832
- 7810
Structural Snapshots of the KMSKS Loop Rearrangement for Amino Acid Activation by Bacterial Tyrosyl-tRNA Synthetase
Takatsugu Kobayashi, T. Takimura, R. Sekine, K. Vincent, K. Kamata, K. Sakamoto, S. Nishimura, S. Yokoyama
Journal of Molecular Biology, **346** (2005) 105-117
- 7811
Structural Basis of Nonnatural Amino Acid Recognition by an Engineered Aminoacyl-tRNA Synthetase for Genetic Code Expansion
Takatsugu Kobayashi, K. Sakamoto, T. Takimura, R. Sekine, K. Vincent, K. Kamata, S. Nishimura, S. Yokoyama
Proceedings of the National Academy of Sciences of the United States of America, **102** (2005) 1366-1371
- 7937
Crystallization and Preliminary X-ray Diffraction Study of L-lactate Oxidase (LOX), R181M Mutant, from *Aerococcus viridans*
Yasufumi Umena, K. Yorita, T. Matsuoka, M. Abe, A. Kita, K. Fukui, T. Tsukihara, Y. Morimoto
Acta Crystallographica Section F, **61** (2005) 439-441
- 7981
Crystallization and Preliminary X-ray Diffraction Study of BchU, a Methyltransferase from *Chlorobium tepidum* Involved in Bacteriochlorophyll *c* Biosynthesis
Jiro Harada, K. Wada, H. Yamaguchi, H. Oh-oka, H. Tamiaki, K. Fukuyama
Acta Crystallographica Section F, **61** (2005) 712-714
- 8070
Structural Studies on a Human DEAD-box RNA Helicase, rck/p54
Tsutomu Matsui
Doctor Thesis (Tokyo Institute of Technology), (2005) 1-82

- 8129
Crystallization and Structural Studies of the Reaction Center-Light Harvesting 1Core Complex from *Rhodospseudomonas Viridis*
Shinya Saijo
Doctor Thesis (Tokyo Institute of Technology), (2005) 1-56
- 8146
Recent Progress of Structural Biology of tRNA Processing and Modification
Kotaro Nakanishi, O. Nureki
Molecular Cell, **19** (2005) 157-166
- 8232
Conformational Change in the Catalytic Site of the Ribonuclease YoeB Toxin by YefM Antitoxin
Katsuhiko Kamada, F. Hanaoka
Molecular Cell, **19** (2005) 497-509
- 8277
Structure of the Terminal Oxygenase Component of Angular Dioxygenase, Carbazole 1,9a-Dioxygenase
Hideaki Nojiri, Y. Ashikawa, H. Noguchi, J. Nam, M. Urata, Z. Fujimoto, H. Uchimura, T. Terada, S. Nakamura, K. Shimizu, T. Yoshida, H. Habe, T. Omori
Journal of Molecular Biology, **351** (2005) 355-370
- 8352
Mechanism of the Conversion of Xanthine Dehydrogenase to Xanthine Oxidase
Tomoko Nishino, K. Okamoto, T. Matsumura, B. T. Eger, E. F. Pai, T. Nishino
The Journal of Biological Chemistry, **280** (2005) 24888-24894
- 8353
Crystallization and Preliminary Crystallographic Analysis of the Human Calcineurin Homologous Protein CHP2 Bound to the Cytoplasmic Region of the Na⁺/H⁺ Exchanger NHE1
Ben Ammar Youssef, S. Takeda, M. Sugahara, M. Miyano, H. Mori, S. Wakabayashi
Acta Crystallographica Section F, **61** (2005) 956-958
- 8359
Aminoacylation Complex Structures of Leucyl-tRNA Synthetase and tRNA^{Leu} Reveal Two Modes of Discriminator-base Recognition
Ryuya Fukunaga, S. Yokoyama
Nature Structural and Molecular Biology, **12** (2005) 915-922
- 8388
Identification of Variant Molecules of *Bacillus thermoproteolyticus* Ferredoxin : Crystal Structure Reveals Bound Coenzyme A and an Unexpected [3Fe-4S] Cluster Associated with a Canonical [4Fe-4S] Ligand Motif
Tadayoshi Shirakawa, Y. Takahashi, K. Wada, J. Hirota, T. Takao, D. Ohmori, K. Fukuyama
Biochemistry, **44** (2005) 12402-12410
- 8484
Crystallization of a 2 : 2 Complex of Granulocyte-Colony Stimulating Factor (GCSF) with the Ligand-Binding Region of GCSF Receptor
Eijiro Honjo, T. Tamada, T. Koshiba, S. Mine, Y. Matsukura, Y. Maeda, T. Okamoto, M. Ishibashi, M. Tokunaga, R. Kuroki
Acta Crystallographica Section F, **61** (2005) 788-790
- 8486
Crystallization of Δ^1 -tetrahydrocannabinolic Acid (THCA) Synthase from *Cannabis sativa*
Yoshinari Shoyama, A. Takeuchi, F. Taura, T. Tamada, M. Adachi, R. Kuroki, Y. Shoyama, S. Morimoto
Acta Crystallographica Section F, **61** (2005) 799-801
- 8609
Crystal Structure of *Escherichia coli* SufA Involved in Biosynthesis of Iron-Sulfur Clusters: Implication for a Functional Dimer
Kei Wada, Y. Hasegawa, Z. Gong, Y. Minami, K. Fukuyama, Y. Takahashi
FEBS Letters, **579** (2005) 6543-6548
- 8793
Expression, Purification, and Crystallization of Endopolygalacturonase from a Pathogenic Fungus, *Stereum purpureum*, in *Escherichia coli*
Tetsuya Shimizu, H. Shibata, T. Araya, T. Nakatsu, K. Miyairi, T. Okuno, H. Kato
Protein Expression and Purification, **44** (2005) 130-135
- 8906
Expression, Purification, Crystallization and Preliminary Crystallographic Analysis of Human Rad GTPase
Arry Yanuar, S. Sakurai, K. Kitano, T. Hakoshima
Acta Crystallographica Section F, **61** (2005) 978-980
- 9347
Functionally Important Substructures of Circadian Clock

Protein KaiB in a Unique Tetramer Complex

Ryo Iwase, K. Imada, F. Hayashi, T. Uzumaki, M. Morishita, K. Onai, Y. Furukawa, K. Namba, M. Ishiura
The Journal of Biological Chemistry, **280** (2005) 43141-43149

9348

Crystallization and Preliminary X-ray Analysis of C-terminal Cytoplasmic Domain of FlhA, a Membrane Protein Subunit of the Bacterial Flagellar Type III Protein Export Apparatus
Yumiko Hamano-Saijo, K. Imada, T. Minamino, M. Kihara, M. R. Macnab, K. Namba
Acta Crystallographica Section F, **61** (2005) 599-602

9379

Irreversible Inhibition of Metallo- β -Lactamase (IMP-1) by 3-(3-Mercaptopropionylsulfanyl)-propionic Acid Pentafluorophenyl Ester
Hiromasa Kuorsaki, Y. Yamaguchi, Y. Yamagata, K. Soga, T. Higashi, S. Matsueda, H. Yumoto, S. Mitsumi, Y. Arakawa, M. Goto
Angewandte Chemie International Edition, **44** (2005) 3861-3864

9432

Structure of a Cynobacterial BLUF Protein, T110078, Containing a Novel FAD-binding Blue Light Sensor Domain
Akiko Kita, K. Okajima, Y. Morimoto, M. Ikeuchi, K. Miki
Journal of Molecular Biology, **349** (2005) 1-9

9433

Crystallization and Preliminary X-ray Crystallographic Analysis of Extracellular Giant Hemoglobin from Pogonophoran *Oligobranchia mashikoi*
Nobutaka Numoto, T. Nakagawa, A. Kita, Y. Sasayama, Y. Fukumori, K. Miki
Biochimica et Biophysica Acta, **1750** (2005) 103-117

9435

Structure of an Extracellular Giant Haemoglobin of the Gutless Beard Worm *Oligobranchia mashikoi*
Nobutaka Numoto, T. Nakagawa, A. Kita, Y. Sasayama, Y. Fukumori, K. Miki
Proceedings of the National Academy of Sciences of the United States of America, **102** (2005) 14521-14526

9436

Crystal Structure of Atypical Cytoplasmic ABC-ATPase SufC from *Thermus thermophilus* HB8

Satoshi Watanabe, A. Kita, K. Miki

Journal of Molecular Biology, **353** (2005) 1043-1054

9513

Structural Role of Countertransport Revealed in Ca²⁺ Pump Crystal Structure in the Absence of Ca²⁺
Koji Obara, N. Miyashita, C. Xu, I. Toyoshima, Y. Sugita, G. Inesi, C. Toyoshima
Proceedings of the National Academy of Sciences of the United States of America, **102** (2005) 14489-14496

BL43IR

7232

Far-infrared Study on the Electronic States of CuIr₂Se₄ under High Pressure
Lin Chen, M. Matsunami, T. Nanba, Y. Ikemoto, T. Moriwaki, H. Kimura, T. Hirono
Journal of the Physical Society of Japan, **74** (2005) 1099-1102

7233

Infrared Spectroscopy on the Electronic State of Transition Metal Compounds under High Pressure
Lin Chen, M. Matsunami, T. Nanba
Physica B, **359-361** (2005) 1186-1188

7372

The Origin of the Phase Separation in Partially Deuterated κ - (ET)₂Cu[N(CN)₂]Br Studied by Infrared Magneto-Optical Imaging Spectroscopy
Tatsuhiko Nishi, S. Kimura, T. Takahashi, T. Ito, H. Im, Y. Kwon, K. Miyagawa, H. Taniguchi, A. Kawamoto, K. Kanoda
Solid State Communications, **134** (2005) 189-193

7451

Polarized Vibrational Absorption of Tunneling Molecular Centers in Cadmium Halide Crystals
Mitsushi Terakami, H. Nakagawa
Physica Status Solidi C, **2** (2005) 716-719

7620

Infrared Study on CeSb under High Pressures
Shin-ichi Kimura, T. Nishi, Y. Mori, Y. Sumida, T. Takahashi, Y. Kwon, H. Im, H. Kitazawa
Physica B, **359-361** (2005) 190-192

7780

Infrared Spectroscopy under Multiextreme Conditions: Direct

Observation of Pseudogap Formation and Collapse in CeSb
Tatsuhiko Nishi, S. Kimura, T. Takahashi, Y. Mori, Y. Kwon,
H. Im, H. Kitazawa
Physical Review B, **71** (2005) 220401(R)

8182

Metal-Insulator Transition in $\text{PrRu}_4\text{P}_{12}$ and $\text{SmRu}_4\text{P}_{12}$
Investigated by Optical Spectroscopy
Masaharu Matsunami, L. Chen, T. Mikio, H. Okamura, T.
Nanba, C. Sekine, I. Shirofuchi
Physical Review B, **72** (2005) 073105

8191

Real Space Imaging of the Metal-Insulator Phase Separation in
the Band Width Controlled Organic Mott System κ -(BEDT-
TTF) $_2$ Cu[N(CN) $_2$]Br
Takahiko Sasaki, N. Yoneyama, A. Suzuki, N. Kobayashi, Y.
Ikemoto, H. Kimura
Journal of the Physical Society of Japan, **74** (2005) 2351-2360

8282

Photoinduced Spin Crossover in a Fe-Picolylamine Complex: A
Far-Infrared Study on Single Crystals
Hidekazu Okamura, M. Matsubara, T. Nanba, T. Tayagaki, K.
Tanaka, S. Mouri, Y. Ikemoto, T. Moriwaki, H. Kimura, G.
Yuhász
Physical Review B, **72** (2005) 073108

8781

Phase Separation in the Vicinity of the Surface of κ -(BEDT-
TTF) $_2$ Cu[N(CN) $_2$]Br by Fast Cooling
Naoki Yoneyama, T. Sasaki, N. Kobayashi, Y. Ikemoto, H.
Kimura
Physical Review B, **72** (2005) 214519

BL44B2 (共用分)

8210

Crystal Structure of Acid Blue and Alkaline Purple Forms of
Bacteriorhodopsin
Tutomu Kouyama, H. Okumura, M. Murakami
Journal of Molecular Biology, **351** (2005) 481-495

9427

Crystal Structures of Δ^1 -Piperidine-2-carboxylate/ Δ^1 -
Pyrroline-2-carboxylate Reductase Belonging to a New Family
of NAD(P)H-dependent Oxidoreductases: Conformational
Change, Substrate Recognition, and Stereochemistry of the

Reaction

Masaru Goto, K. Hirotsu, I. Miyahara, R. Omi
The Journal of Biological Chemistry, **280** (2005) 40875-40884

BL45XU (共用分)

7114

Roles of Hydrophobic Interaction in a Volume Phase Transition
of Alkylacrylamide Gel Induced by the Hydrogen-Bond-
Driving Alkylphenol Binding
Tatsuya Kawashima, S. Koga, M. Annaka, S. Sasaki
The Journal of Physical Chemistry B, **109** (2005) 1055-1062

7490

Viscoelastic Effects on Dynamics of Concentration
Fluctuations for Non-Entangled Polymer Mixture : Time-
Resolved Synchrotron-SAXS Studies After Pressure-Jump
Mikihito Takenaka, M. Miyazawa, S. Nishitsuji, T. Hashimoto
Progress in Colloid and Polymer Science, **130** (2005) 96-103

7671

X-ray Microdiffraction and Conventional Diffraction from
Frozen-Hydrated Biological Specimens
Hiroyuki Iwamoto, K. Inoue, T. Fujisawa, N. Yagi
Journal of Synchrotron Radiation, **12** (2005) 479-483

7867

Protonation-Induced Structural Change of Lyotropic Liquid
Crystals in Oley- and Alkyldimethylamine Oxides/Water
Systems
Hideya Kawasaki, T. Kawashima, S. Sasaki, A. Sasaki, R.
Kakehashi, I. Yamashita, K. Fukada, T. Kato, H. Maeda
Langmuir, **21** (2005) 5731-5737

8320

Synchrotron Small-Angle X-ray Scattering of Relaxation
Process in a Nonentangled Diblock Copolymer
Mikihito Takenaka, M. Miyazawa, T. Miyajima, T. Hashimoto
Macromolecules, **38** (2005) 8481-8485

BL46XU

7307

A Secondary Electron Emission Detector for Measuring the
Intensity of Synchrotron Radiation
Nobuteru Nariyama, S. Taniguchi
Review of Scientific Instruments, **76** (2005) 033302

7506

Determination of a Merocyanine J-Aggregate Structure and the Significant Contribution of the Electric Dipole Interaction to the Exciton Band Wavelength

Noritaka Kato, K. Yuasa, T. Araki, I. Hirosawa, M. Sato, N. Ikeda, K. Iimura, Y. Uesu

Physical Review Letters, **94** (2005) 136404

7555

Characterization of Amorphous Hafnium Silicate and Hafnium Aluminate Films by Grazing-Incidence X-ray Scattering

Ichiro Hirosawa, H. Kitajima, K. Torii

Transactions of the Materials Research Society of Japan, **30** (2005) 221-224

7644

Grazing Incidence X-ray Diffraction of Merocyanine J-Aggregate Monolayers at the Air-Water Interface

Noritaka Kato, K. Yuasa, T. Araki, Y. Uesu, I. Hirosawa, M. Sato, N. Ikeda, K. Iimura

Transactions of the Materials Research Society of Japan, **30** (2005) 117-121

8021

Structural Phase Transition of J-Aggregate Crystallites on the Binary Counter-Ion Subphase

Noritaka Kato, Y. Uesu, T. Araki, M. Sato, I. Hirosawa, N. Ikeda, K. Iimura

Ferroelectrics, **314** (2005) 135-141

8179

Observation of Phase Transition with Lattice Distortion in the Low-dimensional Quantum Spin System TiOBr by Synchrotron X-ray Diffraction – Evidence of Spin-Peierls Transition? –

Tomoyuki Sasaki, M. Mizumaki, K. Kato, Y. Watabe, Y. Nishihata, M. Takata, J. Akimitsu

Journal of the Physical Society of Japan, **74** (2005) 2185-2188

8598

Ferro-type Orbital State in the Mott Transition System $\text{Ca}_{2-x}\text{Sr}_x\text{RuO}_4$ Studied by the Resonant X-ray Scattering Interference Technique

Masato Kubota, Y. Murakami, M. Mizumaki, H. Ohsumi, N. Ikeda, S. Nakatsuji, H. Fukazawa, Y. Maeno

Physical Review Letters, **95** (2005) 026401

BL47XU

7157

Three-Dimensional Observation of Solder Balls by Synchrotron Radiation X-ray Micro-Tomography

Toshihiko Sayama, H. Tsuritani, K. Uesugi, A. Tsuchiyama, T. Nakano, H. Yasuda, T. Takayanagi, T. Mori

Proceedings of 11th Symposium on "Microjoining and Assembly Technology in Electronics", **11** (2005) 189-194

7307

A Secondary Electron Emission Detector for Measuring the Intensity of Synchrotron Radiation

Nobuteru Nariyama, S. Taniguchi

Review of Scientific Instruments, **76** (2005) 033302

7362

Responses of GafChromic Films for Distribution of Extremely High Doses from Synchrotron Radiation

Nobuteru Nariyama

Applied Radiation and Isotopes, **62** (2005) 693-697

7611

Lifetime-Broadening-Removed XANES Spectroscopy by High-Resolution Resonant Inelastic X-ray Scattering

Hisashi Hayashi, R. Takada, Y. Udagawa, T. Nakamura, H. Miyagawa, H. Shoji, S. Nanao, N. Kawamura

Physica Scripta, **T115** (2005) 1094-1096

7612

A Multi-Crystal Spectrometer with a Two-Dimensional Position-Sensitive Detector for X-ray Fluorescence Spectroscopy

Hisashi Hayashi, M. Kawata, R. Takeda, Y. Udagawa

Physica Scripta, **T115** (2005) 1097-1098

7632

X-ray Diffraction Topography on Ferroelectric Materials

Yasuhiro Yoneda, Y. Kohmura, Y. Suzuki, S. Hamazaki, M. Takashige, J. Mizuki

Transactions of the Materials Research Society of Japan, **30** (2005) 51-54

7730

Temperature-Induced Valence Transition in $\text{EuNi}_2(\text{Si}_{0.20}\text{Ge}_{0.80})_2$ Studied by Hard X-ray Photoemission Spectroscopy

Kazuya Yamamoto, N. Kamakura, M. Taguchi, A. Chainani, Y. Takata, K. Horiba, S. Shin, E. Ikenaga, K. Mimura, M. Shiga,

- H. Wada, H. Namatame, M. Taniguchi, M. Awaji, A. Takeuchi, Y. Nishino, D. Miwa, K. Tamasaku, T. Ishikawa, K. Kobayashi
Journal of Electron Spectroscopy and Related Phenomena, **144-147** (2005) 553-555
- 7734
Hard X-ray Photoemission Study of Mn 2p Core-Levels of $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ Thin Films
Kouji Horiba, M. Taguchi, N. Kamakura, K. Yamamoto, A. Chainani, Y. Takata, E. Ikenaga, H. Namatame, M. Taniguchi, M. Awaji, A. Takeuchi, D. Miwa, Y. Nishino, K. Tamasaku, T. Ishikawa, H. Kumigashira, M. Oshima, M. Lippmaa, M. Kawasaki, H. Koinuma, K. Kobayashi, S. Shin
Journal of Electron Spectroscopy and Related Phenomena, **144-147** (2005) 557-559
- 7794
Hard X-ray Core Level Photoemission of Vanadium Oxides
Nozomu Kamakura, M. Taguchi, K. Yamamoto, K. Horiba, A. Chainani, Y. Takata, E. Ikenaga, H. Namatame, M. Taniguchi, M. Awaji, A. Takeuchi, K. Tamasaku, Y. Nishino, D. Miwa, T. Ishikawa, Y. Ueda, K. Kobayashi, S. Shin
Journal of Electron Spectroscopy and Related Phenomena, **144-147** (2005) 841-843
- 7862
Three-Dimensional Observation of the Entangled Eutectic Structure in the Al_2O_3 -YAG System
Hideyuki Yasuda, I. Ohnaka, Y. Mizutani, T. Morikawa, S. Takeshima, A. Sugiyama, Y. Waku, A. Tsuchiyama, T. Nakano, K. Uesugi
Journal of the European Ceramics Society, **25** (2005) 1397-1403
- 8206
Image-Based Mechanical Analysis of Dynamic Deformation and Damage Behaviors in an Aluminium Foam Using Synchrotron X-Ray Microtomography
Hiroyuki Toda, N. Kuroda, T. Ohgaki, M. Kobayashi, T. Akahori, M. Niinomi, T. Kobayashi, K. Uesugi, K. Makii, Y. Aruga
国際会議プロシーディングス (Proceedings of Porous Metals and Metal Foaming Technology), **JIMIC-4** (2005) 409-414
- 8228
Development of High Dose Rate Sensing Method Based on Cavity Ring-Down Laser Spectroscopy
Hideo Tomita, K. Watanabe, J. Kawarabayashi, T. Iguchi, N. Nariyama
Journal of Nuclear Science and Technology, **42** (2005) 673-677
- 8269
Nondestructive Evaluation of Thermal Phase Growth in Solder Ball Micro-Joints by Synchrotron Radiation X-Ray Micro-Tomography
Toshihiko Sayama, H. Tsuritani, K. Uesugi, A. Tsuchiyama, T. Nakano, H. Yasuda
Proceedings of IPACK2005, (2005) 73083
- 8280
Production of Reflection Point Sources for Hard X-Ray Gabor Holography
Sadao Aoki, N. Watanabe, T. Ohigashi, H. Yokosuka, Y. Suzuki, A. Takeuchi, H. Takano
Japanese Journal of Applied Physics, **44** (2005) 417-421
- 8681
Structure Investigation of Narrow Banded Spherulites in Polyhydroxyalkanoates by Microbeam X-ray Diffraction with Synchrotron Radiation
Toshihisa Tanaka, M. Fujita, T. Akihisa, Y. Suzuki, U. Kentaro, Y. Doi, T. Iwata
Polymer, **46** (2005) 5673-5679
- 8760
Selective XANES Spectroscopy from RIXS Contour Maps
Hisashi Hayashi, M. Kawata, R. Takeda, A. Sato, Y. Udagawa, N. Kawamura, S. Nanao
Journal of Physics and Chemistry of Solids, **66** (2005) 2168-2172
- 9191
Application of Synchrotron X-ray Microtomography to Investigate Ductile Fracture in Al Alloys
Lihe Qian, H. Toda, K. Uesugi, T. Kobayashi, T. Ohgaki, M. Kobayashi
Applied Physics Letters, **87** (2005) 241907
- 9444
Production of Reflection Point Sources for Hard X-Ray Gabor Holography
Sadao Aoki, N. Watanabe, T. Ohigashi, H. Yokosuka, Y. Suzuki, A. Takeuchi, H. Takano
Japanese Journal of Applied Physics, **44** (2005) 417-421

専用ビームライン

BL11XU

7636

Mott Gap Excitations in Twin-Free $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ ($T_c=93$ K)

Studied by Resonant Inelastic X-Ray Scattering

Kenji Ishii, K. Tsutsui, Y. Endoh, T. Tohyama, K. Kuzushita, T. Inami, K. Ohwada, S. Maekawa, T. Masui, S. Tajima, Y. Murakami, J. Mizuki

Physical Review Letters, **94** (2005) 187002

7716

Momentum Dependence of Charge Excitations in the Electron-Doped Superconductor $\text{Nd}_{1.85}\text{Ce}_{0.15}\text{CuO}_4$: A Resonant Inelastic X-Ray Scattering Study

Kenji Ishii, K. Tsutsui, Y. Endoh, T. Tohyama, S. Maekawa, M. Hoesch, K. Kuzushita, M. Tsubota, T. Inami, J. Mizuki, Y. Murakami, K. Yamada

Physical Review Letters, **94** (2005) 207003

7717

Theory and Experiment of Orbital Excitations in Correlated Oxides

Sumio Ishihara, Y. Murakami, T. Inami, K. Ishii, J. Mizuki, K. Hirota, S. Maekawa, Y. Endoh

New Journal of Physics, **7** (2005) 119

8505

In situ X-ray Diffraction Study of Molecular-Beam Epitaxial Growth of InAs/GaAs(0 0 1) Quantum Dots

Masamitsu Takahashi, J. Mizuki

Journal of Crystal Growth, **275** (2005) e2201-e2206

8770

Electronic Excitations in Hole-Doped $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ Studied by Resonant Inelastic X-ray Scattering

Kenji Ishii, T. Inami, K. Ohwada, K. Kuzushita, J. Mizuki, Y. Murakami, S. Ishihara, Y. Endoh, S. Maekawa, K. Hirota, Y. Moritomo

Journal of Physics and Chemistry of Solids, **66** (2005) 2157-2162

BL12B2

8346

Structural and Mutational Analysis of *Trypanosoma brucei* Prostaglandin H_2 Reductase Provides Insight into the Catalytic Mechanism of Aldo-ketoreductases

Bruno Kilunga Kubata, T. Inoue, Y. Okano, Z. Kabututu, S. K. Martin, M. Lazarus, M. Duszenko, Y. Sumii, Y. Kusakari, H. Matsumura, Y. Kai, S. Sugiyama, K. Inaka, T. Inui, Y. Urade
The Journal of Biological Chemistry, **280** (2005) 26371-26383

8646

Anaerobic Purification and Crystallization to Improve the Crystal Quality: Ferredoxin II from *Desulfovibrio Gigas*

Ying-Cheng Hsieh, M. Liu, J. Gall, C. Chen

Acta Crystallographica Section D, **61** (2005) 780-783

8647

Expression, Purification and Crystallization of the C-terminal Domain of *Escherichia coli* Adenylyltransferase

Yibin Xu, D. Wen, C. Brown, C. Chen, P. D. Carr, D. L. Ollis, S. G. Vasudevan

Acta Crystallographica Section F, **61** (2005) 663-665

8650

Structural and Functional Insight into Sugar-nonspecific Nucleases in Host Defense

Kuo-Chiang Hsia, C. Li, H. Yuan

Current Opinion in Structural Biology, **15** (2005) 126-134

8651

Structural Basis of Citrate-dependent Heparan Sulfate-mediated Cell Surface Retention of Cobra Cardiotoxin A3

Shao-Chen Lee, H. Guan, C. Wang, W. Huang, S. Tjong, C. Chen, W. Wu

The Journal of Biological Chemistry, **280** (2005) 9567-9577

8652

Mechanism of the Mutation Process of SARS-CoV 3CL Protease

Min-Feng Hsu, C. Kuo, J.-M. Fang, J.-J. Shie, K.-T. Chang, H. Chang, C. Chou, T. Ko, H. Shr, G. Chang, Y.-T. Wu, A. H. J. Wang, P. Liang

The Journal of Biological Chemistry, **280** (2005) 31257-31266

8653

Crystal Structure of Nucleoside Diphosphate Kinase Required for Coleptile Elongation in Rice (*Oryza Sativa* L.)

Jen-Yen Huang, T. Chang, C. Chang, C. Chen

Journal of Structural Biology, **150** (2005) 309-318

8654

Probing the DNA Kink Structure Induced by the Hyperthermophilic Chromosomal Protein Sac7d

- Chin-Yu Chen, T. Ko, T. Lin, C. Chou, C. Chen, A. H. J. Wang
Nucleic Acids Research, **33** (2005) 430-438
- 8657
Surface X-Ray Scattering : Shape and Structure of Low-dimensional Objects
K. S. Liang, Y. P. Stetsko, C.-H. Hsu, Y. Hwu, D. Y. Noh
Chinese Journal of Physics, **43** (2005) 219-232
- 8659
Electronic and Atomic Structures of Quasi-one-dimensional $K_{0.3}MoO_3$
C. H. Huang, J. C. Jan, J. W. Chiou, H. M. Tsai, C. W. Pao, C. H. Du, W. F. Pong, M.-H. Tsai, M. T. Tang, J. J. Lee, J. F. Lee
Applied Physics Letters, **86** (2005) 141905
- 8660
Anode Catalysts for Enhanced Methanol Oxidation : An in situ XANES Study of PtRu/C and PtMo/C Catalysts
S. Mylswamy, C. Y. Wang, R. S. Liu, J.-F. Lee, M.-T. Tang, J.-J. Lee, B.-J. Weng
Chemical Physics Letters, **412** (2005) 444-448
- 8662
Structural Models and Atomic Distribution of Bimetallic Nanoparticles as Investigated by X-ray Absorption Spectroscopy
Bing-Joe Hwang, L. Sarma, J. Chen, C. Chen, S. Shih, G. Wang, D. Liu, J. Lee, M. Tang
Journal of the American Chemical Society, **127** (2005) 11140-11145
- 8664
Carbon-supported Pt-Ru Catalysts Prepared by the Nafion Stabilized Alcohol- reduction Method for Application in Direct Methanol Fuel Cells
Loka Subramanyam Sarma, T. Lin, Y. Tsai, J. Chen, B. Hwang
Journal of Power Sources, **139** (2005) 44-54
- 8674
Probing Pd-carbon Interaction in Pd/C Catalysts by EXAFS
Shawn D. Lin, Y. Hsu, P. Jen, J. Lee
Journal of Molecular Catalysis A: Chemical, **238** (2005) 88-95
- 8675
Characterization of Pt-Ru/C Catalysts by X-ray Absorption Spectroscopy and Temperature-programmed Surface Reaction
Din-Goa Liu, J. Lee, M. Tang
Journal of Molecular Catalysis A : Chemical, **240** (2005) 197-206
- 8676
Crystal Structure of Glucoooligosaccharide Oxidase from *Acremonium strictum* : A Novel Flavinylation of 6-S Cysteinyl, 8 a -N1-Histidyl Fad
Chun-Hsiang Huang, W. Lai, M. Lee, C. Chen, Y. Tsai, A. Vasella, S. Liaw
The Journal of Biological Chemistry, **280** (2005) 38831-38838
- 8677
Crystal Structure of C-terminal Desundecapeptide Nitrite Reductase from *Achromobacter cycloclaste*
Hai-Tao Li, C. C. Wang, T. Chang, W. Chang, C. Chen, L. Gui, J. Zhang, X. An, W. Chang, M. Liu
Biochemical and Biophysical Research Communications, **338** (2005) 1935-1942
- BL12XU**
- 7363
Ordering of Hydrogen Bonds in High-Pressure Low-Temperature H_2O
Yong Cai, H. Mao, P. Chow, J. S. Tse, Y. Ma, S. Patchkovskii, J. F. Shu, V. Struzhkin, R. J. Hemley, H. Ishii, C. Chen, I. Jarrige, C. T. Chen, S. R. Shieh, E. P. Huang, C. Kao
Physical Review Letters, **94** (2005) 025502
- 7922
X-Ray Resonance in Crystal Cavities: Realization of Fabry-Perot Resonator for Hard X Rays
S. L. Chang, Y. P. Stetsko, M. T. Tang, Y. R. Lee, W. H. Sun, M. Yabashi, T. Ishikawa
Physical Review Letters, **94** (2005) 174801
- 7923
Spherically Bent Analyzers for Resonant Inelastic X-ray Scattering with Intrinsic Resolution Below 200meV
Emilie Collart, A. Shukla, F. Gélébart, M. Morand, C. Malgrange, A. Madouri, B. Nathalie, J. Pelouard
Journal of Synchrotron Radiation, **12** (2005) 473-478
- 8306
Inelastic X-ray Scattering Studies of Low-Energy Charge Excitations in Graphite
Nozomu Hiraoka, H. Ishii, I. Jarrige, Y. Cai
Physical Review B, **72** (2005) 075103

8324

Valence State of Tm in TmX (X=S,Se,Te) Investigated by Resonant Inelastic X-ray Scattering

Ignace Jarrige, H. Ishii, Y. Cai, J. Rueff, C. Bonnelle, T. Matsumura, S. R. Shieh

Physical Review B, **72** (2005) 075122

BL14B1

7858

Self-Regeneration of Palladium-Perovskite Catalysts in Modern Automobiles

Yasuo Nishihata, J. Mizuki, H. Tanaka, M. Uenishi, M. Kimura

Journal of Physics and Chemistry of Solids, **66** (2005) 274-282

7930

Structural Kinetics Studies on Phase Transitions of the Bi UPD Layer between the (2×2) and $(p \times \sqrt{3})$ Structures Using Surface X-ray Diffraction

Kazuhisa Tamura, J. Mizuki

The Journal of Physical Chemistry B, **109** (2005) 12832-12836

8268

Pressure-Temperature-Time-Transition Diagram in a Strong Metallic Supercooled Liquid

Wei Hua Wang, W. Utsumi, X. -L. Wang

Europhysics Letters, **71** (2005) 611-617

8575

Structural Studies on Liquids and Glasses under High Pressure and High Temperature

Yoshinori Katayama, Y. Inamura

Nuclear Instruments and Methods in Physics Research Section B, **238** (2005) 154-159

BL16B2

8077

Study on the Thermal Degradation of CeO₂-ZrO₂ Solid Solution by XAFS and XRD

Yasutaka Nagai, T. Yamamoto, T. Tanaka, T. Nonaka, A. Suda

Physica Scripta, **T115** (2005) 664-666

8466

EXAFS Study of Doped Ceria using Multiple Data Set Fit

Hiroshi Deguchi, H. Yoshida, T. Inagaki, M. Horiuchi

Solid State Ionics, **176** (2005) 1817-1825

BL16XU

7452

Study on Fabrication Process of GaAs Electronic Devices

Yoshihiro Saito

Doctor Thesis (The University of Tokyo), (2005) 1-140

7655

In situ X-ray Diffraction Study of Crystallization Process of GeSbTe Thin Films during Heat Treatment

Naohiko Kato, I. Konomi, Y. Seno, T. Motohiro

Applied Surface Science, **244** (2005) 281-284

8067

X-ray Absorption and Emission Spectroscopy at the Hf-L₁ Edge of Hafnium-(Silicon)-Oxide Ultra-Thin Film

Yasushi Uehara, K. Kawase, J. Tsuchimoto, T. Shibano

Journal of Electron Spectroscopy and Related Phenomena, **148** (2005) 75-79

9013

Crystallographic Analysis of CoPtCr-SiO₂ Perpendicular Recording Media with High Anisotropy using Synchrotron Radiation X-ray Diffraction

Toshikazu Kubo, Y. Kuboki, M. Ohsawa, R. Tanuma, A. Saito, T. Oikawa, H. Uwazumi, T. Shimatsu

Journal of Applied Physics, **97** (2005) 10R510

BL22XU

8064

Resonant X-ray Scattering Study of UNiGa₅

Kaori Kuzushita, K. Ishii, K. Ohwada, Y. Murakami, K. Kaneko, N. Metoki, G. Lander, S. Ikeda, Y. Haga, Y. Onuki

Physica B, **359-361** (2005) 1045-1047

8524

X-ray Diffraction Experiments under Pulsed Magnetic Fields above 30T

Toshiya Inami, K. Ohwada, Y. Matsuda, Y. Ueda, H. Nojiri, Y. Murakami, T. Arima, H. Ohta, W. Zhang, K. Yoshimura

Nuclear Instruments and Methods in Physics Research Section B, **238** (2005) 233-236

8535

Magnetic-Field-Induced Transition in the Lattice Modulation of Colossal Magnetoelectric GdMnO₃ and TbMnO₃ Compounds

Takahisa Arima, S. Miyasaka, T. Goto, Y. Yamasaki, K. Ishii,

T. Inami, M. Tsubota, Y. Murakami, Y. Tokura
Physical Review B, **72** (2005) 100102R

BL23SU

7127

Characterization of Interface Defects Related to Negative-Bias Temperature Instability in Ultrathin Plasma-Nitrided SiON/Si<100> Systems

Shinji Fujieda, Y. Miura, M. Saitoh, Y. Teraoka, A. Yoshigoe
Microelectronics Reliability, **45** (2005) 57-64

7546

Scheme for Precise Correction of Orbit Variation Caused by Dipole Error Field of Insertion Device

Takeshi Nakatani, A. Agui, H. Aoyagi, T. Matsushita, M. Takao, M. Takeuchi, A. Yoshigoe, H. Tanaka
Review of Scientific Instruments, **76** (2005) 055105

7565

Admixture of Excited States and Ground States of Eu³⁺ Ion in Eu₃Fe₅O₁₂ by Means of Magnetic Circular Dichroism

Masaichiro Mizumaki, T. Uozumi, A. Agui, N. Kawamura, M. Nakazawa
Physical Review B, **71** (2005) 134416

7588

Three-Dimensional Atomic-Image Reconstruction from a Single Energy Si Photoelectron Hologram

Tomohiro Matsushita, A. Agui, A. Yoshigoe
Journal of Electron Spectroscopy and Related Phenomena, **144-147** (2005) 1175-1177

7795

Synchrotron Radiation Photoemission Spectroscopy for Chemical Bonding of N Atoms in Oxynitride Films Formed at SiO₂/Si(001) by N⁺ Beam Irradiation

Syunsuke Hachiue, Y. Teraoka
真空 (Journal of the Vacuum Society of Japan), **48** (2005) 343-345

BL24XU

7621

High Resolution X-ray Diffraction of Epitaxially Grown Indium Phosphide Nanowires at Grazing Incidence Condition

Tomoaki Kawamura, S. Bhunia, Y. Watanabe, S. Fujikawa, J. Matsui, Y. Kagoshima, Y. Tsusaka

Journal of Applied Physics, **97** (2005) 084318

7927

In-Plane Strain Distribution in the Surface Region of Thin Silicon Overlayers on Insulator

Hiroo Omi, T. Kawamura, S. Fujikawa, Y. Tsusaka, Y. Kagoshima, J. Matsui
Applied Physics Letters, **86** (2005) 263112

8235

The Novel Gluconeogenesis Inhibitor FR225654 that Originates from *Phoma* sp. No. 00144 III. Structure Determination

Yoshihiro Ohtsu, S. Yoshimura, T. Kinoshita, S. Takase, H. Nakajima
The Journal of Antibiotics, **58** (2005) 479-482

8236

Rational Design of Non-Nucleoside, Potent, and Orally Bioavailable Adenosine Deaminase Inhibitors : Predicting Enzyme Conformational Change and Metabolism

Tadashi Terasaka, K. Tsuji, T. Kato, I. Nakanishi, T. Kinoshita, Y. Kato, M. Kuno, T. Inoue, K. Tanaka, K. Nakamura
Journal of Medicinal Chemistry, **48** (2005) 4750-4753

8237

Structural Basis of Compound Recognition by Adenosine Deaminase

Takayoshi Kinoshita, I. Nakanishi, T. Terasaka, M. Kuno, N. Seki, M. Warizaya, H. Matsumura, T. Inoue, K. Takano, H. Adachi, Y. Mori, T. Fujii
Biochemistry, **44** (2005) 10562-10569

8410

Structure and Property of Self-Assemble Valinyl Bolaform Amides having Different Chirality

Mitsunobu Doi, A. Asano, H. Yoshida, M. Inoguchi, K. Iwanaga, M. Sasaki, Y. Katsuya, T. Taniguchi, D. Yamamoto
The Journal of Peptide Research, **66** (2005) 181-189

8725

X-ray Study of Forensic Samples at the SPring-8

Toshio Ninomiya
Journal of X-Ray Science and Technology, **13** (2005) 109-116

BL32B2

7273

Discovery of Quinazolinone and Quinoxaline Derivatives as

Potent and Selective Poly(ADP-Ribose) Polymerase-1/2 Inhibitors

Akinori Iwashita, T. Kinoshita, M. Warizaya, K. Hattori, H. Yamamoto, J. Ishida, Y. Kido, K. Kamijo, K. Murano, H. Miyake, M. Ohkubo, N. Matsuoka, S. Mutoh
FEBS Letters, **579** (2005) 1389-1393

7470

Structure of a High-Resolution Crystal Form of Human Triosephosphate Isomerase: Improvement of Crystals using the Gel-Tube Method

Takayoshi Kinoshita, M. Warizaya, R. Maruki, H. Nakajima, S. Nishimura
Acta Crystallographica Section F, **61** (2005) 346-349

8270

Identification of a Selective ERK Inhibitor and Structural Determination of the Inhibitor-ERK2 Complex

Makoto Otori, T. Kinoshita, M. Okubo, K. Sato, A. Yamazaki, H. Arakawa, S. Nishimura, N. Inamura, H. Nakajima, M. Neya, H. Miyake, T. Fujii
Biochemical and Biophysical Research Communications, **336** (2005) 357-363

BL44XU

7172

Identification of Single Mn²⁺ Binding Sites in the Mutant Proteins of *E. coli* RNase HI at Glu48 and/or Asp134 by X-ray Crystallography

Yasuo Tsunaka, K. Takano, H. Matsumura, Y. Yamagata, S. Kanaya
Journal of Molecular Biology, **345** (2005) 1171-1183

7395

Observation of the Transient Rotator Phase of *n*-Hexadecane in Emulsified Droplets with Time-Resolved Two-Dimensional Small- and Wide-Angle X-Ray Scattering

Yuya Shinohara, N. Kawasaki, S. Ueno, I. Kobayashi, M. Nakajima, Y. Amemiya
Physical Review Letters, **94** (2005) 097801

7687

Direct Evidence for *Sphingomonas* sp. A1 Periplasmic Proteins as Macromolecule-Binding Proteins Associated with the ABC Transporter : Molecular Insights into Alginate Transport in the Periplasm

Keiko Momma, Y. Mishima, W. Hashimoto, B. Mikami, K.

Murata

Biochemistry, **44** (2005) 5053-5064

7877

Crystallization and Preliminary X-ray Analysis of Methylthioribose-1-phosphate Isomerase from *Bacillus subtilis*

Haruka Tamura, T. Inoue, H. Matsumura, H. Ashida, Y. Saito, A. Yokota, Y. Kai

Acta Crystallographica Section F, **61** (2005) 595-598

7894

The Crystal Structures of Semi-Synthetic Aequeorins

Sachiko Toma, K. Teranishi, K. Chong, A. Nakagawa, S. Inoue, O. Shimomura

Protein Science, **14** (2005) 409-416

7906

Conformational Changes in the α -Subunit Coupled to Binding of the β_2 -Subunit of Tryptophan Synthase from *Escherichia coli* : Crystal Structure of the Tryptophan Synthase α -Subunit Alone

Kazuya Nishio, Y. Morimoto, M. Ishizuka, K. Ogasahara, T. Tsukihara, K. Yutani

Biochemistry, **44** (2005) 1184-1192

8264

Crystal Structure of Human T-Protein of Glycine Cleavage System at 2.0Å Resolution and its Implication for Understanding Non-Ketotic Hyperglycinemia

Kazuko Ikeda-Okumura, H. Hosaka, M. Yoshimura, E. Yamashita, S. Toma, A. Nakagawa, K. Fujiwara, Y. Motokawa, H. Taniguchi

Journal of Molecular Biology, **351** (2005) 1146-1159

8267

Structure of the Blue Cornflower Pigment

Masaaki Shiono, N. Matsugaki, K. Takeda
Nature, **436** (2005) 791

8310

Reinvestigation of Metal Ion Specificity for Quinone Cofactor Biogenesis in Bacterial Copper Amine Oxidase

Toshihide Okajima, S. Kishishita, G. Kyu, T. Murakawa, M. Kim, H. Yamaguchi, S. Hirota, S. Kuroda, K. Tanizawa
Biochemistry, **44** (2005) 12041-12048

8371

Repetitive Interactions Observed in the Crystal Structure of a

Collagen-Model Peptide, [(Pro-Pro-Gly)₉]₃
Chizuru Hongo, N. Keiichi, O. Kenji, Y. Tanaka, N. Nishino
The Journal of Biochemistry, **138** (2005) 135-144

8477

Structure of the Central Hub of Bacteriophage Mu Baseplate Determined by X-ray Crystallography of gp44
Youhei Kondou, D. Kitazawa, S. Takeda, Y. Tsuchiya, E. Yamashita, M. Mizuguchi, K. Kawano, T. Tsukihara
Journal of Molecular Biology, **352** (2005) 976-985

8574

Conformational Changes in the Tryptophan Synthase from a Hyperthermophile upon $\alpha_2\beta_2$ Complex Formation : Crystal Structure of the Complex
Soo Jae Lee, K. Ogasahara, J. Ma, K. Nishio, M. Ishida, Y. Yamagata, T. Tsukihara, K. Yutani
Biochemistry, **44** (2005) 11417-11427

8609

Crystal Structure of *Escherichia coli* SufA Involved in Biosynthesis of Iron-Sulfur Clusters : Implication for a Functional Dimer
Kei Wada, Y. Hasegawa, Z. Gong, Y. Minami, K. Fukuyama, Y. Takahashi
FEBS Letters, **579** (2005) 6543-6548

8965

Absolute Configuration of the Hydroxyfarnesylethyl Group of Haem A, Determined by X-ray Structural Analysis of Bovine Heart Cytochrome *c* Oxidase using Methods Applicable at 2.8Å Resolution
Eiki Yamashita, H. Aoyama, M. Yao, K. Muramoto, K. Itoh-Shinzawa, S. Yoshikawa, T. Tsukihara
Acta Crystallographica Section D, **61** (2005) 1373-1377

9271

Complexes of *Thermoactinomyces vulgaris* R-47 α -amylase 1 and Pullulan Model Oligosaccharides Provide New Insight into the Mechanism for Recognizing Substrates with α -(1,6) Glycosidic Linkages
Akemi Abe, H. Yoshida, T. Tonozuka, Y. Sakano, S. Kamitori
The FEBS Journal, **272** (2005) 6145-6153

9433

Crystallization and Preliminary X-ray Crystallographic Analysis of Extracellular Giant Hemoglobin from Pogonophoran *Oligobranchia mashikoi*

Nobutaka Numoto, T. Nakagawa, A. Kita, Y. Sasayama, Y. Fukumori, K. Miki
Biochimica et Biophysica Acta, **1750** (2005) 103-117

9435

Structure of an Extracellular Giant Haemoglobin of the Gutless Beard Worm *Oligobranchia mashikoi*
Nobutaka Numoto, T. Nakagawa, A. Kita, Y. Sasayama, Y. Fukumori, K. Miki
Proceedings of the National Academy of Sciences of the United States of America, **102** (2005) 14521-14526

理研ビームライン BL17SU

7499

Bulk Screening in Core-Level Photoemission from Mott-Hubbard and Charge-Transfer Systems
Munetaka Taguchi, A. Chainani, N. Kamakura, K. Horiba, Y. Takata, M. Yabashi, K. Tamasaku, Y. Nishino, D. Miwa, T. Ishikawa, S. Shin, E. Ikenaga, T. Yokoya, K. Kobayashi, T. Mochiku, K. Hirata, K. Motoya
Physical Review B, **71** (2005) 155102

7730

Temperature-Induced Valence Transition in $\text{EuNi}_2(\text{Si}_{0.20}\text{Ge}_{0.80})_2$ Studied by Hard X-ray Photoemission Spectroscopy
Kazuya Yamamoto, N. Kamakura, M. Taguchi, A. Chainani, Y. Takata, K. Horiba, S. Shin, E. Ikenaga, K. Mimura, M. Shiga, H. Wada, H. Namatame, M. Taniguchi, M. Awaji, A. Takeuchi, Y. Nishino, D. Miwa, K. Tamasaku, T. Ishikawa, K. Kobayashi
Journal of Electron Spectroscopy and Related Phenomena, **144-147** (2005) 553-555

7733

A High-Resolution Angle-Resolved Photoemission Spectrometer Combined with Laser Molecular-Beam Epitaxy at SPring-8 BL17SU
Kouji Horiba, N. Kamakura, K. Yamamoto, K. Kobayashi, S. Shin
Journal of Electron Spectroscopy and Related Phenomena, **144-147** (2005) 1027-1030

8395

Temperature-Dependent Eu 3d-4f X-ray Absorption and Resonant Photoemission Study of the Valence Transition in $\text{EuNi}_2(\text{Si}_{0.2}\text{Ge}_{0.8})_2$
Kazuya Yamamoto, K. Horiba, M. Taguchi, M. Matsunami, N.

Kamakura, A. Chainani, Y. Takata, K. Mimura, M. Shiga, H. Wada, Y. Senba, H. Ohashi, S. Shin
Physical Review B, **72** (2005) 161101(R)

8421

Evidence for Suppressed Screening on the Surface of High Temperature $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ and $\text{Nd}_{2-x}\text{Ce}_x\text{O}_4$ Superconductors
Munetaka Taguchi, A. Chainani, K. Horiba, Y. Takata, M. Yabashi, K. Tamasaku, Y. Nishino, D. Miwa, T. Ishikawa, T. Takeuchi, K. Yamamoto, M. Matsunami, S. Shin, T. Yokoya, E. Ikenaga, K. Kobayashi, T. Mochiku, K. Hirata, J. Hori, K. Ishii, F. Nakamura, T. Suzuki
Physical Review Letters, **95** (2005) 177002

BL19LXU

7972

Synchrotron X-ray Diffraction Studies of a - Gd_2S_3
Koichi Katsumata, A. Kikkawa, Y. Tanaka, S. Shimomura, S. Ebisu, S. Nagata
Journal of the Physical Society of Japan, **74** (2005) 1598-1601

8192

On a Phase Problem of High-Resolution Fourier Transform X-ray Spectroscopy
Kenji Tamasaku, M. Yabashi, T. Ishikawa
Journal of Synchrotron Radiation, **12** (2005) 696-700

8946

The Giant Magneto-Volume Effect in Solid Oxygen
Koichi Katsumata, S. Kimura, U. Staub, Y. Narumi, Y. Tanaka, S. Shimomura, T. Nakamura, S. W. Lovesey, T. Ishikawa, H. Kitamura
Journal of Physics : Condensed Matter, **17** (2005) L235-L239

8947

Manipulating the Multipole Moments in CeB_6 by Magnetic Fields
Yoshikazu Tanaka, K. Katsumata, S. Shimomura, Y. Onuki
Journal of the Physical Society of Japan, **74** (2005) 2201-2204

8948

Study of High-Field Magnetic Phases of the Low-Carrier-System CeP by Synchrotron Radiation X-ray Diffraction
Abdul Hannan, D. Kawana, K. Kuwahara, M. Kohgi, Y. Narumi, Y. Tabata, S. Shimomura, Y. Tanaka, K. Katsumata
Journal of the Physical Society of Japan, **74** (2005) 2301-2309

BL26B1

7131

Crystal Structure of Leucyl-tRNA Synthetase from the Archaeon *Pyrococcus horikoshii* Reveals a Novel Editing Domain Orientation
Ryuya Fukunaga, S. Yokoyama
Journal of Molecular Biology, **346** (2005) 57-71

7134

Crystallization of Leucyl-tRNA Synthetase Complexed with tRNA^{Leu} from the Archaeon *Pyrococcus horikoshii*
Ryuya Fukunaga, R. Ishitani, O. Nureki, S. Yokoyama
Acta Crystallographica Section F, **61** (2005) 30-32

7568

Crystallization and Preliminary X-ray Studies on the Reaction Center-Light-Harvesting 1 Core Complex from *Rhodospseudomonas viridis*
Shinya Saijo, T. Sato, T. Kumasaka, N. Tanaka, K. Harata, T. Odahara
Acta Crystallographica Section F, **61** (2005) 83-86

7693

Crystal Structure of the tRNA 3' Processing Endoribonuclease tRNase Z from *Thermotoga maritima*
Ryohei Ishii, A. Minagawa, H. Takaku, M. Takagi, M. Nashimoto, S. Yokoyama
The Journal of Biological Chemistry, **280** (2005) 14138-14144

7694

Crystal Structure of tRNA Adenosine Deaminase (TadA) from *Aquifex aeolicus*
Mitsuo Kuratani, R. Ishii, Y. Bessho, R. Fukunaga, T. Sengoku, M. Shirouzu, S. Sekine, S. Yokoyama
The Journal of Biological Chemistry, **280** (2005) 16002-16008

7904

Crystallization and Preliminary Crystallographic Analysis of the Nickel-Responsive Regulator NikR from *Pyrococcus horikoshii*
Tomoe Kitao, C. Kuroishi, T. Tahirov
Acta Crystallographica Section F, **61** (2005) 43-45

7905

Purification, Crystallization and Preliminary Crystallographic Analysis of the Vacuole-Type ATPase Subunit E from *Pyrococcus horikoshii* OT3

- Neratur Lokanath, Y. Ukita, M. Sugahara, N. Kunishima
Acta Crystallographica Section F, **61** (2005) 56-58
- 7907
Crystal Structure of Dehydroquinase Synthase From *Thermus thermophilus* HB8 Showing Functional Importance of the Dimeric State
Michihiro Sugahara, Y. Nodake, M. Sugahara, N. Kunishima
Proteins: Structure, Function, and Bioinformatics, **58** (2005) 249-252
- 7908
Purification, Crystallization and Preliminary Crystallographic Analysis of the Biotin-Protein Ligase from *Pyrococcus horikoshii* OT3
Bagautdinov Bagautdin, C. Kuroishi, M. Sugahara, N. Kunishima
Acta Crystallographica Section F, **61** (2005) 193-195
- 7909
Crystal Structure of a Component of Glycine Cleavage System : T-Protein from *Pyrococcus horikoshii* OT3 at 1.5 Å Resolution
Neratur Lokanath, C. Kuroishi, N. Okazaki, N. Kunishima
Proteins: Structure, Function, and Bioinformatics, **58** (2005) 769-773
- 7912
Beamline Scheduling Software : Administration Software for Automatic Operation of the RIKEN Structural Genomics Beamlines at SPring-8
Go Ueno, H. Kanda, M. Yamamoto, T. Kumasaka
Journal of Synchrotron Radiation, **12** (2005) 380-384
- 7920
Crystal Structure of a Predicted Phosphoribosyltransferase (TT1426) from *Thermus thermophilus* HB8 at 2.01 Å Resolution
Mutsuko Kukimoto-Niino, R. Shibata, K. Murayama, H. Hamana, M. Nishimoto, Y. Bessho, T. Terada, M. Shirouzu, S. Kuramitsu, S. Yokoyama
Protein Science **14** (2005) 823-827
- 8046
Structure of PIN-Domain Protein PH0500 from *Pyrococcus horikoshi*
Jeyakantha Jeyaraman, E. Inagaki, C. Kuroishi, T. Tahirov
Acta Crystallographica Section F, **61** (2005) 463-468
- 8129
Crystallization and Structural Studies of the Reaction Center-Light Harvesting 1Core Complex from *Rhodospseudomonas Viridis*
Shinya Saijo
Doctor Thesis (Tokyo Institute of Technology), (2005) 1-56
- 8143
Crystal Structure of an Enhancer of Rudimentary Homologue (ERH) at 2.1 Å Resolution
Ryoichi Arai, M. Kukimoto-Niino, H. Uda-Tochio, S. Morita, T. Uchikubo-Kamo, R. Akasaka, Y. Etou, Y. Hayashizaki, T. Kigawa, T. Terada, M. Shirouzu, S. Yokoyama
Protein Science, **14** (2005) 1888-1893
- 8144
Structure of *Pyrococcus horikoshii* NikR : Nickel Sensing and Implications for the Regulation of DNA Recognition
Peter Chivers, T. Tahirov
Journal of Molecular Biology, **348** (2005) 597-607
- 8146
Recent Progress of Structural Biology of tRNA Processing and Modification
Kotaro Nakanishi, O. Nureki
Molecular Cell, **19** (2005) 157-166
- 8358
Structural Basis for Non-Cognate Amino Acid Discrimination by the Valyl-tRNA Synthetase Editing Domain
Ryuya Fukunaga, S. Yokoyama
The Journal of Biological Chemistry, **280** (2005) 29937-29945
- 8359
Aminoacylation Complex Structures of Leucyl-tRNA Synthetase and tRNA^{Leu} Reveal Two Modes of Discriminator-base Recognition
Ryuya Fukunaga, S. Yokoyama
Nature Structural and Molecular Biology, **12** (2005) 915-922
- 8406
Crystal Structure of M-Ras Reveals a GTP-bound "Off" State Conformation of Ras Family Small GTPase
Min Ye, F. Shima, S. Muraoka, J. Liao, H. Okamoto, M. Yamamoto, A. Tamura, N. Yagi, T. Ueki, T. Kataoka
The Journal of Biological Chemistry, **280** (2005) 31267-31275

- 8544
Stabilization Due to Dimer Formation of Phosphoribosyl Anthranilate Isomerase from *Thermus thermophilus* HB8: X-ray Analysis and DSC Experiments
Junichiro Taka, K. Ogasahara, J. Jeyaraman, N. Kunishima, C. Kuroishi, M. Sugahara, S. Yokoyama, K. Yutani
The Journal of Biochemistry, **137** (2005) 569-578
- 8620
Purification, Crystallization and Preliminary X-ray Crystallographic Study of the L-fucose-1-phosphate Aldolase (FucA) from *Thermus thermophilus* HB8
Jeyakanthan Jeyaraman, J. Taka, A. Kikuchi, C. Kuroishi, K. Yutani, Y. Shiro
Acta Crystallographica Section F, **61** (2005) 1075-1077
- 8680
Crystal Structure of a Purine/Pyrimidine Phosphoribosyltransferase-Related Protein from *Thermus thermophilus* HB8
Peter Rehse, T. Tahirov
Proteins : Structure, Function, and Bioinformatics, **61** (2005) 658-665
- 8686
Crystallization and Avoiding the Problem of Hemihedral Twinning in Crystals of δ^1 -pyrroline-5-carboxylate Dehydrogenase from *Thermus thermophilus*
Eiji Inagaki, H. Takahashi, C. Kuroishi, T. Tahirov
Acta Crystallographica Section F, **61** (2005) 609-611
- 8689
Structure of a Closed-Form Uroporphyrinogen-III C-methyltransferase from *Thermus thermophilus*
Rehse Peter, T. Kitao, T. Tahirov
Acta Crystallographica Section D, **61** (2005) 913-919
- 8705
Structure of ATP-dependent Phosphoenolpyruvate Carboxykinase from *Thermus thermophilus* HB8 Showing the Structural Basis of Induced Fit and Thermostability
Michihiro Sugahara, N. Ohshima, Y. Ukita, M. Sugahara, N. Kunishima
Acta Crystallographica Section D, **61** (2005) 1500-1507
- 8709
Purification, Crystallization and Initial X-ray Crystallographic Analysis of the Putative GTPase PH0525 from *Pyrococcus horikoshii* OT3
Neratur K. Lokanath, H. Yamamoto, E. Matsunaga, M. Sugahara, N. Kunishima
Acta Crystallographica Section F, **61** (2005) 892-894
- 8719
Stabilization Mechanism of the Tryptophan Synthase α -Subunit from *Thermus thermophilus* HB8: X-Ray Crystallographic Analysis and Calorimetry
Yukuhiko Asada, M. Sawano, K. Ogasawara, J. Nakamura, M. Ota, C. Kuroishi, M. Sugahara, K. Yutani, N. Kunishima
The Journal of Biochemistry, **138** (2005) 343-353
- 8729
Crystal Structures of Biotin Protein Ligase from *Pyrococcus horikoshii* OT3 and its Complexes: Structural Basis of Biotin Activation
Bagautdin Bagautdinov, C. Kuroishi, M. Sugahara, N. Kunishima
Journal of Molecular Biology, **353** (2005) 322-333
- 8766
Crystal Structure of Novel NADP-dependent 3-Hydroxyisobutyrate Dehydrogenase from *Thermus thermophilus* HB8
Neratur Lokanath, N. Ohshima, K. Takio, I. Shiromizu, C. Kuroishi, N. Okazaki, S. Kuramitsu, S. Yokoyama, M. Miyano, N. Kunishima
Journal of Molecular Biology, **352** (2005) 905-917

BL26B2

- 7912
Beamline Scheduling Software: Administration Software for Automatic Operation of the RIKEN Structural Genomics Beamlines at SPring-8
Go Ueno, H. Kanda, M. Yamamoto, T. Kumasaka
Journal of Synchrotron Radiation, **12** (2005) 380-384
- 7951
Structure of a Putative Trans-editing Enzyme for Prolyl-tRNA from *Aeropyrum pernix* K1 at 1.7 Å Resolution
Kazutaka Murayama, M. Kato-Murayama, K. Katsura, T. Uchikubo-Kamo, M. Yamaguchi-Hirafuji, M. Kawazoe, R. Akasaka, K. Hanawa-Suetsugu, C. Hori-Takemoto, T. Terada, M. Shirouzu, S. Yokoyama
Acta Crystallographica Section F, **61** (2005) 26-29

8563

A Norovirus Protease Structure Provides Insights into Active and Substrate Binding Site Integrity

Kentaro Nakamura, Y. Someya, T. Kumasaka, G. Ueno, M. Yamamoto, T. Sato, N. Takeda, T. Miyamura, N. Tanaka
Journal of Virology, **79** (2005) 13685-13693

8679

Compact Reduced Thioredoxin Structure from the Thermophilic Bacteria *Thermus thermophilus*

Peter Rehse, M. Kumei, T. Tahirov
Proteins: Structure, Function, and Bioinformatics, **61** (2005) 1032-1037

BL29XU

7499

Bulk Screening in Core-Level Photoemission from Mott-Hubbard and Charge-Transfer Systems

Munetaka Taguchi, A. Chainani, N. Kamakura, K. Horiba, Y. Takata, M. Yabashi, K. Tamasaku, Y. Nishino, D. Miwa, T. Ishikawa, S. Shin, E. Ikenaga, T. Yokoya, K. Kobayashi, T. Mochiku, K. Hirata, K. Motoya
Physical Review B, **71** (2005) 155102

7685

Goniometric and Topographic Characterization of Synthetic IIA Diamonds

Kenji Tamasaku, T. Ueda, D. Miwa, T. Ishikawa
Journal of Physics D: Applied Physics, **38** (2005) A61-A66

7734

Hard X-ray Photoemission Study of Mn 2p Core-Levels of $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ Thin Films

Kouji Horiba, M. Taguchi, N. Kamakura, K. Yamamoto, A. Chainani, Y. Takata, E. Ikenaga, H. Namatame, M. Taniguchi, M. Awaji, A. Takeuchi, D. Miwa, Y. Nishino, K. Tamasaku, T. Ishikawa, H. Kumigashira, M. Oshima, M. Lippmaa, M. Kawasaki, H. Koinuma, K. Kobayashi, S. Shin
Journal of Electron Spectroscopy and Related Phenomena, **144-147** (2005) 557-559

7825

A Novel Probe of Intrinsic Electronic Structure: Hard X-ray Photoemission Spectroscopy

Yasutaka Takata, K. Tamasaku, Y. Nishino, D. Miwa, M. Yabashi, E. Ikenaga, K. Horiba, M. Arita, K. Shimada, H. Namatame, H. Nohira, T. Hattori, S. Södergren, B. Wannberg,

M. Taniguchi, S. Shin, T. Ishikawa, K. Kobayashi

Journal of Electron Spectroscopy and Related Phenomena, **144-147** (2005) 1063-1065

8123

Development of Hard X-ray Photoelectron Spectroscopy at BL29XU in SPring-8

Yasutaka Takata, M. Yabashi, K. Tamasaku, Y. Nishino, D. Miwa, T. Ishikawa, E. Ikenaga, K. Horiba, S. Shin, M. Arita, K. Shimada, H. Namatame, M. Taniguchi, H. Nohira, T. Hattori, S. Södergren, B. Wannberg, K. Kobayashi
Nuclear Instruments and Methods in Physics Research Section A, **47** (2005) 50-55

8134

Element Array by Scanning X-ray Fluorescence Microscopy after *Cis*-Diamminedichloro-Platinum (II) Treatment

Mari Shimura, A. Saito, S. Matsuyama, T. Sakuma, Y. Terui, K. Ueno, H. Yumoto, K. Yamauchi, K. Yamamura, H. Mimura, Y. Sano, M. Yabashi, K. Tamasaku, K. Nishio, Y. Nishino, K. Endo, K. Hatake, Y. Mori, Y. Ishizaka, T. Ishikawa
Cancer Research, **65** (2005) 4998-5002

8135

High-Resolution X-ray Monochromators

Tetsuya Ishikawa, K. Tamasaku, M. Yabashi
Nuclear Instruments and Methods in Physics Research Section A, **547** (2005) 42-49

8136

Hard-X-ray Photoelectron Spectroscopy of $\text{Na}_x\text{CoO}_2 \cdot y\text{H}_2\text{O}$

Ashish Chainani, T. Yokoya, Y. Takata, K. Tamasaku, M. Taguchi, T. Shimojima, N. Kamakura, K. Horiba, S. Tsuda, S. Shin, D. Miwa, Y. Nishino, T. Ishikawa, M. Yabashi, K. Kobayashi, H. Namatame, M. Taniguchi, K. Takada, T. Sasaki, H. Sakurai, E. Takayama-Muromachi
Nuclear Instruments and Methods in Physics Research Section A, **547** (2005) 163-168

8137

Relative Angle Determinable Stitching Interferometry for Hard X-ray Reflective Optics

Hidekazu Mimura, H. Yumoto, S. Matsuyama, K. Yamamura, Y. Sano, K. Ueno, K. Endo, Y. Mori, M. Yabashi, K. Tamasaku, Y. Nishino, T. Ishikawa, K. Yamauchi
Review of Scientific Instruments, **76** (2005) 045102

8138

Hard X-ray Diffraction-Limited Nanofocusing with Kirkpatrick-Baez Mirrors

Hidekazu Mimura, S. Matsuyama, H. Yumoto, H. Harada, K. Yamamura, Y. Sano, M. Shibahara, K. Endo, Y. Mori, Y. Nishino, K. Tamasaku, M. Yabashi, T. Ishikawa, K. Yamauchi
Japanese Journal of Applied Physics, **44** (2005) L539-L542

8140

Nano-Resolution Profiling of Micro-Structures using Quantative X-ray Phase Retrieval from Fraunhofer Diffraction Data

A. V. Darahanau, A. Y. Nikulin, A. Souvorov, Y. Nishino, B. C. Muddle, T. Ishikawa
Physics Letters A, **335** (2005) 494-498

8421

Evidence for Suppressed Screening on the Surface of High Temperature $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ and $\text{Nd}_{2-x}\text{Ce}_x\text{O}_4$ Superconductors

Munetaka Taguchi, A. Chainani, K. Horiba, Y. Takata, M. Yabashi, K. Tamasaku, Y. Nishino, D. Miwa, T. Ishikawa, T. Takeuchi, K. Yamamoto, M. Matsunami, S. Shin, T. Yokoya, E. Ikenaga, K. Kobayashi, T. Mochiku, K. Hirata, J. Hori, K. Ishii, F. Nakamura, T. Suzuki
Physical Review Letters, **95** (2005) 177002

8734

Examination of Bragg Backscattering from Crystalline Quartz

John P. Sutter, A. Q. R. Baron, T. Ishikawa, H. Yamazaki
Journal of Physics and Chemistry of Solids, **66** (2005) 2306-2309

BL44B2

7910

Structure of P-protein of the Glycine Cleavage System: Implications for Nonketotic Hyperglycinemia

Tadashi Nakai, N. Nakagawa, N. Maoka, R. Masui, S. Kuramitsu, N. Kamiya
The EMBO Journal, **24** (2005) 1523-1536

7917

ATP-Induced Structural Change of Dephosphocoenzyme A Kinase from *Thermus thermophilus* HB8

Azusa Seto, K. Murayama, M. Toyama, A. Ebihara, N. Nakagawa, S. Kuramitsu, M. Shirouzu, S. Yokoyama
Proteins : Structure, Function, and Bioinformatics, **58** (2005) 235-242

7918

Crystal Structures of the Signal Transducing Protein GlnK from *Thermus thermophilus* HB8

Hiroaki Sakai, H. Wang, C. Takemoto-Hori, T. Kaminishi, H. Yamaguchi, Y. Kamewari, T. Terada, S. Kuramitsu, M. Shirouzu, S. Yokoyama
Journal of Structural Biology, **149** (2005) 99-110

7919

Crystal Structure of TT1662 From *Thermus thermophilus* HB8 : A Member of the α / β Hydrolase Fold Enzymes

Kazutaka Murayama, M. Shirouzu, T. Terada, S. Kuramitsu, S. Yokoyama
Proteins : Structure, Function, and Bioinformatics, **58** (2005) 982-984

7953

Crystal Structure of a Novel Polyisoprenoid-Binding Protein from *Thermus Thermophilus* HB8

Noriko Handa, T. Terada, Y. Doi-Katayama, H. Hirota, J. R. H. Tame, S. Park, S. Kuramitsu, M. Shirouzu, S. Yokoyama
Protein Science, **14** (2005) 1004-1010

7962

Crystal Structure of Pyruvate Phosphate Dikinase from Maize Revealed an Alternative Conformation in the Swiveling-Domain Motion

Tsugumi Nakanishi, T. Nakatsu, M. Matsuoka, K. Sakata, H. Kato
Biochemistry, **44** (2005) 1136-1144

8142

Crystal Structure of the N-terminal RecA-like Domain of a DEAD-box RNA Helicase, the *Dugesia japonica* vasa-like Gene B Protein

Kazuki Kurimoto, Y. Muto, N. Obayashi, T. Terada, M. Shirouzu, T. Yabuki, M. Aoki, E. Seki, T. Matsuda, T. Kigawa, H. Okumura, A. Tanaka, N. Shibata, M. Kashikawa, K. Agata, S. Yokoyama
Journal of Structural Biology, **150** (2005) 58-68

8146

Recent Progress of Structural Biology of tRNA Processing and Modification

Kotaro Nakanishi, O. Nureki
Molecular Cell, **19** (2005) 157-166

- 8263
Crystallization and Preliminary Crystallographic Analysis of Bacterial Fructosyl Amino Acid Oxidase
Ryoichi Sakaue, T. Nakatsu, Y. Yamaguchi, H. Kato, N. Kajiyama
Acta Crystallographica Section F, **61** (2005) 196-198
- 8353
Crystallization and Preliminary Crystallographic Analysis of the Human Calcineurin Homologous Protein CHP2 Bound to the Cytoplasmic Region of the Na⁺/H⁺ Exchanger NHE1
Ben Ammar Youssef, S. Takeda, M. Sugahara, M. Miyano, H. Mori, S. Wakabayashi
Acta Crystallographica Section F, **61** (2005) 956-958
- 8763
A Novel Induced-fit Reaction Mechanism of Asymmetric Hot Dog Thioesterase Paal
Naoki Kunishima, Y. Asada, M. Sugahara, J. Ishijima, Y. Nodake, M. Sugahara, M. Miyano, S. Kuramitsu, S. Yokoyama, M. Sugahara
Journal of Molecular Biology, **352** (2005) 212-228
- 9424
Structural Determinants for Branched-Chain Aminotransferase Isozyme Specific Inhibition by the Anticonvulsant Drug Gabapentin
Masaru Goto, K. Hirotsu, I. Miyahara, M. Conway, N. Yennawar, M. M. Islam, S. M. Huston
The Journal of Biological Chemistry, **280** (2005) 37246-37256
- 9434
Crystal Structure of Stilbene Synthase from *Arachis hypogaea*
Yasuhito Shomura, I. Torayama, D. Suh, T. Xiang, A. Kita, U. Sankawa, K. Miki
Proteins: Structure, Function, and Bioinformatics, **60** (2005) 803-806
- 9436
Crystal Structure of Atypical Cytoplasmic ABC-ATPase SufC from *Thermus thermophilus* HB8
Satoshi Watanabe, A. Kita, K. Miki
Journal of Molecular Biology, **353** (2005) 1043-1054
- 9437
Crystal Structure of the Small Form of Glucose-Inhibited Division Protein A from *Thermus thermophilus* HB8
Wakana Iwasaki, H. Miyatake, K. Miki
Proteins : Structure, Function, and Bioinformatics, **61** (2005) 1121-1126
- 9438
Crystal Structure of Putative *N*-Acetyl- γ -Glutamyl-Phosphate Reductase (AK071544) from Rice (*Oryza sativa*)
Tsuyoshi Nonaka, A. Kita, J. Miura-Ohnuma, E. Katoh, N. Inagaki, T. Yamazaki, K. Miki
Proteins : Structure, Function, and Bioinformatics, **61** (2005) 1137-1140
- 9439
Improved Expression, Purification, and Crystallization of a Putative *N*-acetyl- γ -glutamyl-phosphate Reductase from Rice (*Oryza sativa*)
Jun Miura-Ohnuma, T. Nonaka, S. Katoh, K. Murata, A. Kita, K. Miki, E. Katoh
Acta Crystallographica Section F, **61** (2005) 1058-1061
- BL45XU**
- 7269
Specific Collapse Followed by Slow Hydrogen Bond Formation of β -Sheet in the Folding of Single Chain Monellin
Tetsunari Kimura, T. Uzawa, K. Ishimori, I. Morishima, S. Takahashi, T. Konno, S. Akiyama, T. Fujisawa
Proceedings of the National Academy of Sciences of the United States of America, **102** (2005) 2748-2753
- 7378
Crystal Structures of Type II Restriction Endonuclease EcoO109I and Its Complex with Cognate DNA
Hiroshi Hashimoto, T. Shimizu, T. Imasaki, M. Kato, N. Shichijo, K. Kita, M. Sato
The Journal of Biological Chemistry, **280** (2005) 5605-5610
- 7903
Crystal Structure of the Histidine-Containing Phosphotransfer Protein ZmHP2 from Maize
Hajime Sugawara, Y. Kawano, T. Hatakeyama, T. Yamaya, N. Kamiya, H. Sakakibara
Protein Science, **14** (2005) 202-208
- 7910
Structure of P-protein of the Glycine Cleavage System: Implications for Nonketotic Hyperglycinemia
Tadashi Nakai, N. Nakagawa, N. Maoka, R. Masui, S. Kuramitsu, N. Kamiya

The EMBO Journal, **24** (2005) 1523-1536

7918

Crystal Structures of the Signal Transducing Protein GlnK from *Thermus thermophilus* HB8

Hiroaki Sakai, H. Wang, C. Takemoto-Hori, T. Kaminishi, H. Yamaguchi, Y. Kamewari, T. Terada, S. Kuramitsu, M. Shirouzu, S. Yokoyama

Journal of Structural Biology, **149** (2005) 99-110

7953

Crystal Structure of a Novel Polyisoprenoid-Binding Protein from *Thermus Thermophilus* HB8

Noriko Handa, T. Terada, Y. Doi-Katayama, H. Hirota, J. R. H. Tame, S. Park, S. Kuramitsu, M. Shirouzu, S. Yokoyama

Protein Science, **14** (2005) 1004-1010

7962

Crystal Structure of Pyruvate Phosphate Dikinase from Maize Revealed an Alternative Conformation in the Swiveling-Domain Motion

Tsugumi Nakanishi, T. Nakatsu, M. Matsuoka, K. Sakata, H. Kato

Biochemistry, **44** (2005) 1136-1144

7980

Time-Resolved X-ray Diffraction Study on Poly[(R)-3-hydroxybutyrate] Films during Two-Step-Drawing: Generation Mechanism of Planar Zigzag Structure

Tadahisa Iwata, M. Fujita, Y. Aoyagi, Y. Doi, T. Fujisawa

Biomacromolecules, **6** (2005) 1803-1809

7994

Specifically Collapsed Intermediate in the Early Stage of the Folding of Ribonuclease A

Tetsunari Kimura, S. Akiyama, T. Uzawa, K. Ishimori, I. Morishima, T. Fujisawa, S. Takahashi

Journal of Molecular Biology, **350** (2005) 349-362

8030

Synchrotron SAXS and WAXS Studies on Changes in Structural and Thermal Properties of Poly[(R)-3-hydroxybutyrate] Single Crystals during Heating

Masahiro Fujita, T. Sawayanagi, T. Tanaka, T. Iwata, H. Abe, Y. Doi, K. Ito, T. Fujisawa

Macromolecular Rapid Communications, (2005) 678-683

8763

A Novel Induced-fit Reaction Mechanism of Asymmetric Hot Dog Thioesterase Paal

Naoki Kunishima, Y. Asada, M. Sugahara, J. Ishijima, Y. Nodake, M. Sugahara, M. Miyano, S. Kuramitsu, S. Yokoyama, M. Sugahara

Journal of Molecular Biology, **352** (2005) 212-228

9433

Crystallization and Preliminary X-ray Crystallographic Analysis of Extracellular Giant Hemoglobin from Pogonophoran *Oligobranchia mashikoi*

Nobutaka Numoto, T. Nakagawa, A. Kita, Y. Sasayama, Y. Fukumori, K. Miki

Biochimica et Biophysica Acta, **1750** (2005) 103-117

9435

Structure of an Extracellular Giant Haemoglobin of the Gutless Beard Worm *Oligobranchia mashikoi*

Nobutaka Numoto, T. Nakagawa, A. Kita, Y. Sasayama, Y. Fukumori, K. Miki

Proceedings of the National Academy of Sciences of the United States of America, **102** (2005) 14521-14526

9437

Crystal Structure of the Small Form of Glucose-Inhibited Division Protein A from *Thermus thermophilus* HB8

Wakana Iwasaki, H. Miyatake, K. Miki

Proteins : Structure, Function, and Bioinformatics, **61** (2005) 1121-1126

研究開発その他

Accelerator

7308

Suppression of Injection Bump Leakage Caused by Sextupole Magnets within a Bump Orbit

Hitoshi Tanaka, T. Ohshima, K. Soutome, M. Takao

Nuclear Instruments and Methods in Physics Research Section A, **539** (2005) 547-557

7844

Event-Synchronized Data Acquisition System for the SPring-8 Linac Beam Position Monitors

Takemasa Masuda, T. Fukui, R. Tanaka, T. Taniuchi, A. Yamashita, K. Yanagida

Nuclear Instruments and Methods in Physics Research Section A, **543** (2005) 415-430

8595
Formulation of Nonlinear Chromaticity in Circular Accelerators
by Canonical Perturbation Method
Masaru Takao
Physical Review E, **72** (2005) 046502

Control

7844
Event-Synchronized Data Acquisition System for the SPring-8
Linac Beam Position Monitors
Takemasa Masuda, T. Fukui, R. Tanaka, T. Taniuchi, A.
Yamashita, K. Yanagida
Nuclear Instruments and Methods in Physics Research Section
A, **543** (2005) 415-430

Insertion Device

7546
Scheme for Precise Correction of Orbit Variation Caused by
Dipole Error Field of Insertion Device
Takeshi Nakatani, A. Agui, H. Aoyagi, T. Matsushita, M.
Takao, M. Takeuchi, A. Yoshigoe, H. Tanaka
Review of Scientific Instruments, **76** (2005) 055105

Instrumentation & Technique

7588
Three-Dimensional Atomic-Image Reconstruction from a
Single Energy Si Photoelectron Hologram
Tomohiro Matsushita, A. Agui, A. Yoshigoe
Journal of Electron Spectroscopy and Related Phenomena, **144-147** (2005) 1175-1177

8123
Development of Hard X-ray Photoelectron Spectroscopy at
BL29XU in SPring-8
Yasutaka Takata, M. Yabashi, K. Tamasaku, Y. Nishino, D.
Miwa, T. Ishikawa, E. Ikenaga, K. Horiba, S. Shin, M. Arita, K.
Shimada, H. Namatame, M. Taniguchi, H. Nohira, T. Hattori,
S. Södergren, B. Wannberg, K. Kobayashi
Nuclear Instruments and Methods in Physics Research Section
A, **47** (2005) 50-55

8524
X-ray Diffraction Experiments under Pulsed Magnetic Fields
above 30T
Toshiya Inami, K. Ohwada, Y. Matsuda, Y. Ueda, H. Nojiri, Y.

Murakami, T. Arima, H. Ohta, W. Zhang, K. Yoshimura
Nuclear Instruments and Methods in Physics Research Section
B, **238** (2005) 233-236

8734
Examination of Bragg Backscattering from Crystalline Quartz
John P. Sutter, A. Q. R. Baron, T. Ishikawa, H. Yamazaki
Journal of Physics and Chemistry of Solids, **66** (2005) 2306-
2309

8897
Introduction of Spectroscopic Photoemission and Low Energy
Electron Microscope in SPring-8
FangZhun Guo, K. Kobayashi, T. Kinoshita
表面科学 (Journal of the Surface Science Society of Japan), **26**
(2005) 20-27

Optics

7685
Goniometric and Topographic Characterization of Synthetic IIA
Diamonds
Kenji Tamasaku, T. Ueda, D. Miwa, T. Ishikawa
Journal of Physics D : Applied Physics, **38** (2005) A61-A66

8135
High-Resolution X-ray Monochromators
Tetsuya Ishikawa, K. Tamasaku, M. Yabashi
Nuclear Instruments and Methods in Physics Research Section
A, **547** (2005) 42-49

8137
Relative Angle Determinable Stitching Interferometry for Hard
X-ray Reflective Optics
Hidekazu Mimura, H. Yumoto, S. Matsuyama, K. Yamamura,
Y. Sano, K. Ueno, K. Endo, Y. Mori, M. Yabashi, K.
Tamasaku, Y. Nishino, T. Ishikawa, K. Yamauchi
Review of Scientific Instruments, **76** (2005) 045102

8138
Hard X-ray Diffraction-Limited Nanofocusing with
Kirkpatrick-Baez Mirrors
Hidekazu Mimura, S. Matsuyama, H. Yumoto, H. Harada, K.
Yamamura, Y. Sano, M. Shibahara, K. Endo, Y. Mori, Y.
Nishino, K. Tamasaku, M. Yabashi, T. Ishikawa, K. Yamauchi
Japanese Journal of Applied Physics, **44** (2005) L539-L542

8192

On a Phase Problem of High-Resolution Fourier Transform X-ray Spectroscopy

Kenji Tamasaku, M. Yabashi, T. Ishikawa

Journal of Synchrotron Radiation, **12** (2005) 696-700

8933

Effect of Distorted Illumination Waves on Coherent Diffraction Microscopy

Yoshiki Kohmura, Y. Nishino, T. Ishikawa, J. Miao

Journal of Applied Physics, **98** (2005) 123105

Staff Activity (Out of SPring-8)

7376

Orbital Dynamics of the 4f Shell in DyB₂C₂

Urs Staub, A. M. Mulders, O. Zaharko, S. Janssen, T.

Nakamura, S. W. Lovesey

Physical Review Letters, **94** (2005) 036408