発表論文リスト

SPring-8 年報は年度ごとに発行されているが、論文リストに関しては発行年で編集している。今回は、2010年（１月～12月）に発表された原著論文で、2011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、SPring-8 研究成果発表データベースの登録レコード番号、論文タイトル、雑誌名、巻、発行年、掲載ページ、著者名を項目順に示す。

共用ビームライン
BL01B1

15965
Synthesis of Novel Structured TiO_2 with Mesopores by Anodic Oxidation
Inorganic Chemistry, **49** (2010) 47-51
Atsushi Nakahira, Koichi Konishi, Koji Yokota, Takashi Kubo, Yukichi Sasaki, Yuichi Ikuhara

16341
Characterization of Structural Changes of Fe(II)-Fe(III) Compounds with Oxidation and Reduction
Doctor Thesis (Tohoku University), (2010)
Katsuya Inoue

16373
μ-XAENS Evidence for the Reduction of Sb(V) to Sb(III) in Soil from Sb Mine Tailing
Environmental Science & Technology, **44** (2010) 1281-1287
Satoshi Mitsunobu, Yoshio Takahashi, Yasuko Terada

16443
Toward the Ultimate Limit of Phase Change in $Ge_2Sb_2Te_5$
Nano Letters, **10** (2010) 414-419
Robert Simpson, Milos Krbal, Paul Fons, Alexander Kolobov, Junji Tominaga, Tomoya Uruga, Hajime Tanida

16632
Development of Transition Edge Sensor Microcalorimeter
Doctor Thesis (The University of Tokyo), (2010)
Yasuhiro Minamikawa

16657
Chlorinated Aromatic Compounds in a Thermal Process Promoted by Oxychlorination of Ferric Chloride
Environmental Science & Technology, **44** (2010) 1974-1979
Takashi Fujimori, Masaki Takaoka, Shinsuke Morisawa

16698
Ice Chromatography. Methodological Developments and Characterization of Water-Ice.
Doctor Thesis (Tokyo Institute of Technology), (2010)
Yuiko Tasaki

16777
Local Atomic Structure of $Ni_{60}Pd_{20}P_{20}$ and $Ni_{60}Pd_{20}P_{17}B_3$ Bulk Metallic Glasses and the Origin of Glass Forming Ability
Journal of Alloys and Compounds, **496** (2010) 135-139
Makoto Matsuura, Takeshi Fujita, Asahi Kawashima, Zeng Yuqiao, Hisamichi Kimura, Pengfei Guan, Mingwei Chen, Akihisa Inoue, Kazuya Konno, Kaku Asada

16827
Mechanism of Incorporation of Zinc into Hydroxyapatite
Acta Biomaterialia, **6** (2010) 2289-2293
Katsuyuki Matsunaga, Hidenobu Murata, Teruyasu Mizoguchi, Atsushi Nakahira

16856
In Situ Time-Resolved XAFS Study on the Formation Mechanism of Cu Nanoparticles Using Poly (*N*-vinyl-2-pyrrolidone) as a Capping Agent
Langmuir, **6** (2010) 4473-4479
Shun Nishimura, Atsushi Takagaki, Shinya Maenosono, Kohki Ebitani

16946
Inorganic Iodine Incorporation into Soil Organic Matter: Evidence from Iodine K-edge X-ray Absorption Near-Edge Structure
Journal of Environmental Radioactivity, **101** (2010) 451-457
Noriko Yamaguchi, Masashi Nakano, Rieko Takamatsu, Hajime Tanida

16971
Highly Chemoselective Reduction of Nitroaromatic Compounds Using a Hydrotalcite-supported Silver Nanoparticle Catalyst under a CO Atmosphere
Chemistry Letters, **39** (2010) 223-225
Yusuke Mikami, Akifumi Noujima, Takato Mitsudome, Tomoo Mizugaki, Koichiro Jitsukawa, Kiyotomi Kaneda

16978
In Situ Generation of Active Pd Nanoparticles within a Macroreticular Acidic Resin: Efficient Catalyst for the Direct Synthesis of Hydrogen Peroxide
The Journal of Physical Chemistry Letters, **1** (2010) 1675-1678
Kohsuke Mori, Akihiro Hanafusa, Michel Che, Hiromi Yamashita

16997
Antimony(V) Incorporation into Synthetic Ferrihydrite, Goethite, and Natural Iron Oxyhydroxides
Environmental Science & Technology, **44** (2010) 3712-3718
Satoshi Mitsunobu, Yoshio Takahashi, Yasuko Terada, Masahiro Sakata

17078
Mineralogy and Origin of Oxygen-Bearing Platinum-Iron Grains Based on an X-ray Absorption Spectroscopy Study
American Mineralogist, **95** (2010) 622-630
Kéiko H. Hattori, Yoshio Takahashi, Theirry Augé

17130
Microstructural Control of Mesoporous Bulk Composed of TiO_2-Derived Titanate Nanotubes
Applied Materials and Interfaces, **2** (2010) 1136-1140
Atsushi Nakahira, Takashi Kubo, Yuki Yamasaki

17137
Variations in the Redox State of As and Fe Measured by X-ray Absorption Spectroscopy in Aquifers of Bangladesh and Their Effect on As Adsorption
Applied Geochemistry, **25** (2010) 34-47
Takaaki Itai, Yoshio Takahashi, Seddique Ashraf, Teruyuki Maruoka, Muneki Mitamura

17144
Unique Properties and Reactivity of High-Valent Manganese-Oxo versus Manganese-Hydroxo in the Salen Platform
Inorganic Chemistry, **49** (2010) 6664-6672
Takuya Kurahashi, Akihiro Kikuchi, Yoshitsugu Shiro, Masahiko Hada, Hiroshi Fujii

17181
Formation Mechanism of TiO_2-Derived Titanate Nanotubes Prepared by the Hydrothermal Process
Inorganic Chemistry, **49** (2010) 5845-5852
Atsushi Nakahira, Takashi Kubo, Chiya Numako

17357
Speciation of Tungsten in Natural Ferromanganese Oxides Using Wavelength Dispersive XAFS
Chemistry Letters, **39** (2010) 870-871
Teruhiko Kashiwabara, Yoshio Takahashi, Tomoya Uruga, Hajime Tanida, Yasuko Terada, Akihiro Niwa, Masaharu Nomura

17381
Origin of the Excellent Catalytic Activity of Pd Loaded on Ultra-Stable Y Zeolites in Suzuki-Miyaura Reactions
Journal of Catalysis, **273** (2010) 156-166
Kazu Okumura, Takuya Tomiyama, Shizuyo Okuda, Hiroyuki Yoshida, Miki Niwa

17449
First-Principles Calculations of Zn-K XANES in Ca-deficient Hydroxyapatite
Journal of Physics: Condensed Matter, **22** (2010) 384213
Hidenobu Murata, Kazuki Shitara, Isao Tanaka, Atsushi Nakahira, Teruyasu Mizoguchi, Katsuyuki Matsunaga

17577
Novel Catalytic Behavior of Cu/Al_2O_3 Catalyst against Daily Start-up and Shut-down (DSS)-like Operation in the Water Gas Shift Reaction
Applied Catalysis A: General, **387** (2010) 185-194
Shun Nishimura, Tetsuya Shishido, Kohki Ebitani, Kentaro Teramura, Tsunehiro Tanaka

17773
Symmetry Switch of Cobalt Ferrocyanide Framework by Alkaline Cation Exchange
Journal of the American Chemical Society, **132** (2010) 12206-12207
Tomoyuki Matsuda, Jungeun Kim, Yutaka Moritomo

17774
Electronic Structure of Hole-Doped Transition Metal Cyanides
Journal of the Physical Society of Japan, **79** (2010) 044710
Yutaro Kurihara, Hiroki Funashima, Masaya Ishida, Noriaki Hamada, Tomoyuki Matsuda, Kazuhiro Igarashi, Hajime Tanida, Tomoya Uruga, Yutaka Moritomo

17814
Photoassisted Amorphization of the Phase-Change Memory Alloy $Ge_2Sb_2Te_5$
Physical Review B, **82** (2010) 041203
Paul Fons, Hitoshi Osawa, Alexander Kolobov, Toshio Fukaya, Motohiro Suzuki, Tomoya Uruga, Naomi Kawamura, Hajime Tanida, Junji Tominaga

17815
Phase Transition in Crystalline GeTe: Pitfalls of Averaging Effects
Physical Review B, **82** (2010) 155209
Paul Fons, Alexander Kolobov, Milos Krbal, Junji Tominaga, Kristoph Andrikopoulos, S. N. Yannopoulos, G. A. Voyiatzis, Tomoya Uruga

17817
Amorphous InSb: Longer Bonds yet Higher Density
Journal of Applied Physics, **108** (2010) 023506
Milos Krbal, Alexander Kolobov, Berangere Hyot, Bernard Andre, Paul Fons, Robert Simpson, Tomoya Uruga, Hajime Tanida, Junji Tominaga

17821
Investigation of the Formation Process of Photodeposited Rh Nanoparticles on TiO_2 by In Situ Time-Resolved Energy-Dispersive XAFS Analysis
Langmuir, **26** (2010) 13907-13912
Junya Ohyama, Kentaro Teramura, Shin-ichi Okuoka, Seiji Yamazoe, Kazuo Kato, Tetsuya Shishido, Tsunehiro Tanaka

17822
Analysis of Local Environment of Fe Ions in Hexagonal $BaTiO_3$
Japanese Journal of Applied Physics, **49** (2010) 091502
Shunsuke Chikada, Kazuyuki Hirose, Tomoyuki Yamamoto

17844
EXAFS Study on the Cause of Enrichment of Heavy REEs on Bacterial Cell Surfaces
Geochimica et Cosmochimica Acta, **74** (2010) 5443-5462
Yoshio Takahashi, Mika Yamamoto, Yuhei Yamamoto, Kazuya Tanaka

17965
Enhancement of the Photoinduced Oxidation Activity of Ru(II) Complex Anchored onto Silica-Coated Silver Nanoparticles by the Assist of Localized Surface Plasmon
Angewandte Chemie International Edition, **49** (2010) 8598-8601
Kohsuke Mori, Masayoshi Kawashima, Michel Che, Hiromi Yamashita

17966
Synthesis, Characterization, and Catalytic Property of Hollow γ-Fe_2O_3 Sphere toward Liquid-phase Oxidation Using Hydrogen Peroxide
Bulletin of the Chemical Society of Japan, **83** (2010) 1122-1126
Kohsuke Mori, Isamu Tanimura, Hiromi Yamashita

18127
Supported Monomeric Vanadium Catalyst for Dehydration of Amides to Form Nitriles
Chemical Communications, (2010) 8243-8245
Shoichiro Sueoka, Takato Mitsudome, Tomoo Mizugaki, Koichiro Jitsukawa, Kiyotomi Kaneda

18128
Creation of High-Valent Manganese Species on Hydrotalcite and Its Application to Catalytic Aerobic Oxidation of Alcohols
Green Chemistry, **12** (2010) 2142-2144
Kohji Nagashima, Takato Mitsudome, Tomoo Mizugaki, Koichiro Jitsukawa, Kiyotomi Kaneda

18129
Room-Temperature Deoxygenation of Epoxides with CO Catalyzed by Hydrotalcite-Supported Gold Nanoparticles in Water
Chemistry - A European Journal, **16** (2010) 11818-11821
Takato Mitsudome, Akifumi Noujima, Yusuke Mikami, Tomoo Mizugaki, Koichiro Jitsukawa, Kiyotomi Kaneda

18130
Selective Deoxygenation of Styrene Oxides under a CO Atmosphere Using Silver Nanoparticle Catalyst
Tetrahedron Letters, **51** (2010) 5466-5468
Yusuke Mikami, Akifumi Noujima, Takato Mitsudome, Tomoo Mizugaki, Koichiro Jitsukawa, Kiyotomi Kaneda

18131
Fine Tuning of Pd^0 Nanoparticle on Hydroxyapatite and Its Application for Quinoline Hydrogenation
Chemistry Letters, **39** (2010) 832-834
Norifumi Hashimoto, Yuusuke Takahasi, Takayoshi Hara, Shogo Shimizu, Takato Mitsudome, Tomoo Mizugaki, Koichiro Jitsukawa, Kiyotomi Kaneda

18132
Supported Gold and Silver Nanoparticles for Catalytic Deoxygenation of Epoxides into Alkenes
Angewandte Chemie International Edition, **49** (2010) 5545-5548
Takato Mitsudome, Akifumi Noujima, Yusuke Mikami, Tomoo Mizugaki, Koichiro Jitsukawa, Kiyotomi Kaneda

18134
Oxidant-free Lactonization of Diols Using a Hydrotalcite-Supported Copper Catalyst
Heterocycles, **80** (2010) 855-861
Yusuke Mikami, Kaori Ebata, Takato Mitsudome, Tomoo Mizugaki, Koichiro Jitsukawa, Kiyotomi Kaneda

18135
Wacker-Type Oxidation of Internal Olefins Using a $PdCl_2$/*N*, *N*-Dimethylacetamide Catalyst System under Copper-Free Reaction Conditions
Angewandte Chemie International Edition, **49** (2010) 1238-1240
Takato Mitsudome, Keiichi Mizumoto, Tomoo Mizugaki, Koichiro Jitsukawa, Kiyotomi Kaneda

18502
Characterization of Aging Properties and Precipitation of Copper Base Alloys
High Temperature Materials and Processes, **29** (2010) 405-419
Shigeo Sato, Kazuaki Wagatsuma, Minoru Isshiki, Hirotoshi Tashiro, Shigeru Suzuki

18842
Sintering and Evaluation of ZrO_2 Prepared by Spark Plasma Sintering Method
粉体および粉末冶金 (Journal of the Japan Society of Powder and Powder Metallurgy), **57** (2010) 542-545
Atsushi Nakahira, Hirokazu Naganuma, Taro Monden

18844
Preparation and Evaluation of Hydrozyapatite with Addition of Amorphous SiO_2
粉体および粉末冶金 (Journal of the Japan Society of Powder and Powder Metallurgy), **57** (2010) 533-536
Atsushi Nakahira, Kentaro Nakata, Mitsutaka Sato

18845
Synthesis of Fe Doped Hydroxyapatite by Aqueous Solution Process
粉体および粉末冶金 (Journal of the Japan Society of Powder and Powder Metallurgy), **57** (2010) 529-532
Mitsutaka Sato, Atsushi Nakahira

18859
Creation of a Type 1 Blue Copper Site within a *de novo* Coiled-Coil Protein Scaffold
Journal of the American Chemical Society, **132** (2010) 18191-18198
Daigo Shiga, Daisuke Nakane, Tomohiko Inomata, Yasuhiro Funahashi, Hideki Masuda, Akihiro Kikuchi, Masayuki Oda, Masanori Noda, Susumu Uchiyama, Kiichi Fukui, Kenji Kanaori, Kunihiko Tajima, Yu Takani, Haruki Nakamura, Toshiki Tanaka

18943
Generation of Br_nsted Acid Over Alumina-Supported Niobia Calcined at High Temperatures
Topics in Catalysis, **53** (2010) 672-677
Tetsuya Shishido, Tomoyuki Kitano, Kentaro Teramura, Tsunehiro Tanaka

18944
What Do Tantalum Framework Sites Look Like in Zeolites? A Combined Theoretical and Experimental Investigation
The Journal of Physical Chemistry C, **114** (2010) 9923-9930
Frederik Tielens, Tetsuya Shishido, Stanislaw Dzwigaj

18945
What Do the Niobium Framework Sites Look Like in Redox Zeolites? A Combined Theoretical and Experimental Investigation
The Journal of Physical Chemistry C, **114** (2010) 3140-3147
Frederik Tielens, Tetsuya Shishido, Stanislaw Dzwigaj

19040
Soil Column Experiments for Iodate and Iodide using K-edge XANES and HPLC-ICP-MS
Journal of Geochemical Exploration, **107** (2010) 117-123
Yoko S. Shimamoto, Takaaki Itai, Yoshio Takahashi

BL02B1

16896
Internal Residual Strain of GlidCop for Materials of the High-Heat-Load Components
Materials Science Forum, **652** (2010) 222-226
Mutsumi Sano, Sunao Takahashi, Atsuo Watanabe, Hideo Kitamura, Koji Kiriyama, Takahisa Shobu

16928
Residual Microstress of Austenitic Stainless Steel due to Tensile Deformation
Materials Science Forum, **652** (2010) 7-12
Kenji Suzuki, Takahisa Shobu

17262
Polymorphic Crystal Approach to Changing the Emission of $[AuCl(PPh_3)_2]$, Analyzed by Direct Observation of the Photoexcited Structures by X-ray Photocrystallography
Inorganic Chemistry, **49** (2010) 7257-7265
Manabu Hoshino, Hidehiro Uekusa, Satoshi Ishii, Takuhiro Otsuka, Youkoh Kaizu, Yoshiki Ozawa, Koshiro Toriumi

17383
Ferro- and Antiferromagnetic Coupling Switch Accompanied by Twist Deformation around the Copper(II) and Nitroxide Coordination Bond
Journal of the American Chemical Society, **132** (2010) 11516-11524
Atsushi Okazawa, Daisuke Hashizume, Takayuki Ishida

17439
Flexibility of Cubane-like Cu_4I_4 Framework: Temperature Dependence of Molecular Structure and Luminescence Thermochromism of $[Cu_4I_4(PPh_3)_4]$ in Two Polymorphic Crystalline States
Chemical Communications, **46** (2010) 6302-6304
Hakuba Kitagawa, Yoshiki Ozawa, Koshiro Toriumi

17461
Residual Microstress of Austenitic Stainless Steel by Plastic Deformation
保全学 (Maintenology), **9** (2010) 39-44
Kenji Suzuki, Takahisa Shobu

17638
The Photo-induced Commensurate Modulated Structure in Site-Selective Spin Crossover Complex *trans*-$[Fe(abpt)_2(NCS)_2]$
Dalton Transactions, **39** (2010) 9794-9800
Che-Hsiu Shih, Chou-Fu Sheu, Kenichi Kato, Kunihisa Sugimoto, Jungeun Kim, Yu Wang, Masaki Takata

18011
Antiferrodistortive Structural Phase Transition in Compressively-strained Epitaxial $SrTiO_3$ Film Grown on $(La,Sr)(Al,Ta)O_3$ Substrate
Integrated Ferroelectrics, **115** (2010) 57-62
Tomoaki Yamada, Takanori Kiguchi, Alexander Taganstev, Hitoshi Morioka, Takashi Iijima, Hiroyuki Ohsumi, Shigeru Kimura, Minoru Osada, Nava Setter, Hiroshi Funakubo

BL02B2

14945
Structures and Proton Conductivity of One-Dimensional $M(dhbq)\cdot nH_2O$ (M = Mg, Mn, Co, Ni, Zn, H_2(dhbq) = 2,5-Dihydroxy-1,4-benzoquinone) Promoted by Connected Hydrogen-Bond Networks with Absorbed Water
Bulletin of the Chemical Society of Japan, **83** (2010) 42-48
Teppei Yamada, Shota Morikawa, Hiroshi Kitagawa

16372
Opening of a Charge Gap with V Trimerization in $BaV_{10}O_{15}$
Physical Review B, **81** (2010) 060405(R)
Tomomasa Kajita, Tatsuya Kanzaki, Takehito Suzuki, Jungeun Kim, Kenichi Kato, Masaki Takata, Takuro Katsufuji

16657
Chlorinated Aromatic Compounds in a Thermal Process Promoted by Oxychlorination of Ferric Chloride
Environmental Science & Technology, **44** (2010) 1974-1979
Takashi Fujimori, Masaki Takaoka, Shinsuke Morisawa

16671
Poly[[bis{μ_3-tris[2-(1*H*-tetrazol-1-yl)-ethyl]amine}copper(II)] bis(perchlorate)]
Acta Crystallographica Section E, **66** (2010) m399-m400
Franz Werner, Kenji Tokuno, Miki Hasegawa, Wolfgang Linert, Kurt Mereiter

16753
Crystal Structure of High-temperature Phase of Lithium Ionic Conductor, Li_3PS_4
Journal of the Physical Society of Japan, **79** (2010) 90-93
Kenji Homma, Masao Yonemura, Miki Nagao, Masaaki Hirayama, Ryoji Kanno

16803
Effect of a Quaternary Ammonium Salt on Propylene Carbonate Structure in Slit-Shape Carbon Nanopores
Journal of the American Chemical Society, **132** (2010) 2112-2113
Akimi Tanaka, Taku Iiyama, Tomonori Ohba, Sumio Ozeki, Koki Urita, Toshihiko Fujimori, Hirofumi Kanoh, Katsumi Kaneko

16885

Formation of a Three-Dimensional Network of V Trimers in $A_2V_{13}O_{22}$ (A=Ba, Sr)

Physical Review Letters, **104** (2010) 207201

Junya, Miyazaki, K. Matsudaira, Y. Shimizu, M. Itoh, Y. Nagamine, S. Mori, Jungeun Kim, Kenichi Kato, Masaki Takata, Takuro Katsufuji

17116

Crossover Behavior of the Crystal Structure and the Relation to Magnetism in Perovskite $RTiO_3$

Physical Review B, **82** (2010) 020401(R)

Kou Takubo, Masayuki Shimuta, Jungeun Kim, Kenichi Kato, Masaki Takata, Takuro Katsufuji

17157

Structural Investigation of $GeSb_6Te_{10}$ and $GeBi_6Te_{10}$ Intermetallic Compounds in the Chalcogenide Homologous Series

Acta Crystallographica Section B, **66** (2010) 407-411

Toshiyuki Matsunaga, Rie Kojima, Noboru Yamada, Tomoko Fujita, Kouichi Kifune, Yoshiki Kubota, Masaki Takata

17227

Antiferromagnetic Magnetic Transition and Spin Fluctuations in the Deformed Pyrochlore Compound β-$Fe_2(OH)_3Cl$

Physical Review B, **82** (2010) 024425

Masayoshi Fujihala, Masato Hagihala, Xu-Guang Zheng, Tatsuya Kawae

17233

$CaCu_3Pt_4O_{12}$: The First Perovskite with the B Site Fully Occupied by Pt^{4+}

Inorganic Chemistry, **49** (2010) 6778-6780

Ikuya Yamada, Yuka Takahashi, Kenya Ohgushi, Norimasa Nishiyama, Ryoji Takahashi, Kohei Wada, Takehiro Kunimoto, Hiroaki Ohfuji, Yohei Kojima, Toru Inoue, Tetsuo Irifune

17249

Magnetic Properties and Arrangements of Molecular Oxygen Adsorbed in Microporous Coordination Polymers

Doctor Thesis (Okayama University), (2010)

Akihiro Hori

17429

Effects of Oxygen Content on $Bi_3Mn_3O_{11+\delta}$: From 45 K Antiferromagnetism to Room-Temperature True Ferromagnetism

Journal of the American Chemical Society, **132** (2010) 12426-12432

Alexei Belik, Eiji Takayama-Muromachi

17460

Phase Transitions and the Role of Vanadium t_{2g} States in $AV_{13}O_{18}$ (A=Sr,Ba)

Physical Review B, **82** (2010) 104415

Miho Ikeda, Y. Nagamine, Shigeo Mori, Jungeun Kim, Kenichi Kato, Masaki Takata, Takuro Katsufuji

17769

Spin Crossover Characteristics of Nanofibrous Fe^{II}-1, 2, 4-triazole Complexes in Liquid Crystals

Chemical Communications, **46** (2010) 1229-1231

Keita Kuroiwa, Hirotsugu Kikuchi, Nobuo Kimizuka

17773

Symmetry Switch of Cobalt Ferrocyanide Framework by Alkaline Cation Exchange

Journal of the American Chemical Society, **132** (2010) 12206-12207

Tomoyuki Matsuda, Jungeun Kim, Yutaka Moritomo

17795

Synthesis, Structure, and Physical Properties of *A*-site Ordered Perovskites $ACu_3Co_4O_{12}$ (A = Ca and Y)

Chemistry of Materials, **22** (2010) 5328-5332

Ikuya Yamada, Shintaro Ishiwata, Ichiro Terasaki, Masaki Azuma, Yuichi Shimakawa, Mikio Takano

17861

Atomic-Level Pd-Pt Alloying and Largely Enhanced Hydrogen-Storage Capacity in Bimetallic Nanoparticles Reconstructed from Core/Shell Structure by a Process of Hydrogen Absorption/Desorption

Journal of the American Chemical Society, **132** (2010) 5576-5577

Hirokazu Kobayashi, Miho Yamauchi, Hiroshi Kitagawa, Yoshiki Kubota, Kenichi Kato, Masaki Takata

18023

Development of an in-situ Structure/Photo-Absorption Coincident Measurement System for Precise Structure-Optical Pproperty Relationship Research at SPring-8

AIP Conference Proceedings, **1234** (2010) 256-259

Jungeun Kim, Kenichi Kato, Yutaka, Moritomo, Masaki Takata

18240

Low-temperature Magnetic Properties and High-temperature

Diffusive Behavior of $LiNiO_2$ Investigated by Muon-spin Spectroscopy
Physical Review B, **82** (2010) 224412
Jun Sugiyama, Yutaka Ikeda, Kazuhiko Mukai, Hiroshi Nozaki, Martin Månsson, Ofer Oren, Masashi Harada, Kazuya Kamazawa, Yasuhiro Miyake, Brewer H. Jess, Eduardo J. Ansaldo, Chow Kim, Isao Watanabe, Tsutomu Ohzuku

18257
Dynamic Changes in Dimensional Structures of Co-Complex Crystals
Inorganic Chemistry, **49** (2010) 9247-9252
Atsushi Kondo, Tomohiro Nakagawa, Hiroshi Kajiro, Ayako Chinen, Yoshiyuki Hattori, Fujio Okino, Tomonori Ohba, Katsumi Kaneko, Hirofumi Kanoh

18476
Synthesis, Structure and Phase Transitions in Lithium Ionic Conductor, Thio-LISICON, based on the Lithium Phosphorus Sulfide System
Doctor Thesis (Tokyo Institute of Technology), (2010)
Kenji Homma

18615
Columnar Liquid Crystal with a Spontaneous Polarization along the Columnar Axis
Journal of the American Chemical Society, **132** (2010) 8530-8531
Daigo Miyajima, Fumito Araoka, Hideo Takezoe, Jungeun Kim, Kenichi Kato, Masaki Takata, Takuzo Aida

18774
Sucessive Phase Transitions with Multi-*k* and Non-coplanar Spin Order, Spin Fluctuations and Field-induced Phases in Deformed Pyrochlore Antiferromagnet $Co_2(OH)_3Br$
Physical Review B, **82** (2010) 214424
Masato Hagihara, Xu-Guang Zheng, Tatsuya Kawae, Taku J. Sato

18775
Unusual Low-temperature Phase in VO_2 Nanoparticles
Physical Review B, **82** (2010) 115404
Yoichi Ishiwata, Satoshi Suehiro, Masato Hagihara, Xu-Guang Zheng, Tatsuya Kawae, O. Morimoto, Yasuhisa Tezuka

18939
Two-Dimensional $S = 1$ Quantum Antiferromagnet $(NiCl)Sr_2Ta_3O_{10}$
Chemistry of Materials, **22** (2010) 4625-4631
Yoshihiro Tsujimoto, Atsushi Kitada, Yasutomo J. Uemura, Tatsuo Geko, Adam Aczel, Travis J. Williams, Graeme M. Luke, Yasuo Narumi, Koichi Kindo, Masakazu Nishi, Yoshitami Ajiro, Kazuyoshi Yoshimura, Hiroshi Kageyama

BL04B1

16392
Partitioning of Oxygen between the Earth's Mantle and Core
Journal of Geophysical Research, **115** (2010) B02202
Daniel Frost, Yuki Asahara, David Rubie, Nobuyoshi Miyajima, Leonid Dubrovinsky, Christian Holzapfel, Eiji Ohtani, Masaaki Miyahara, Takeshi Sakai

16860
Structure of Liquid Water under High Pressure up to 17 GPa
Physical Review B, **81** (2010) 014109
Yoshinori Katayama, Takanori Hattori, Hiroyuki Saitoh, Takashi Ikeda, Katsutosi Aoki, Hiroshi Fukui, Kenichi Funakoshi

17043
Elastic Wave Velocities of Silica Glass at High Temperatures and High Pressures
Journal of Applied Physics, **107** (2010) 123530
Ayako Yokoyama, Masanori Matsui, Yuji Higo, Yoshio Kono, Tetsuo Irifune, Kenichi Funakoshi

17233
$CaCu_3Pt_4O_{12}$: The First Perovskite with the B Site Fully Occupied by Pt^{4+}
Inorganic Chemistry, **49** (2010) 6778-6780
Ikuya Yamada, Yuka Takahashi, Kenya Ohgushi, Norimasa Nishiyama, Ryoji Takahashi, Kohei Wada, Takehiro Kunimoto, Hiroaki Ohfuji, Yohei Kojima, Toru Inoue, Tetsuo Irifune

17250
Crystal Structure of a New High-Pressure Polymorph of Topaz-OH
American Mineralogist, **95** (2010) 1349-1352
Masami Kanzaki

17251
Unique Crystal Chemistry of Two Polymorphs of Topaz-OH: A Multi-Nuclear NMR and Raman Study
American Mineralogist, **95** (2010) 1276-1293
Xianyu Xue, Masami Kanzaki, Hiroshi Fukui

17359
Pressure Generation to 125 GPa Using a 6-8-2 Type Multianvil Apparatus with Nano-Polycrystalline Diamond Anvils
Journal of Physics: Conference Series, **215** (2010) 012190
Takehiro Kunimoto, Tetsuo Irifune

17777
Pressure and Temperature Dependences of Elastic Properties of Grossular Garnet up to 17 GPa and 1650 K
Journal of Earth Science, **21** (2010) 782-791
Yoshio Kono, Steeve Gréaux, Yuji Higo, Hiroaki Ohfuji, Tetsuo Irifune

17947
P-V-T Relation of MgO Derived by Simultaneous Elastic Wave Velocity and in situ X-ray Measurements: A New Pressure Scale for the Mantle Transition Region
Physics of the Earth and Planetary Interiors, **183** (2010) 196-211
Yoshio Kono, Tetsuo Irifune, Yuji Higo, Toru Inoue, Auke Barnhoorn

18245
Stress Relaxation Experiments of Olivine under Conditions of Subducted Slab in Earth's Deep Mantle
Physics of the Earth and Planetary Interiors, **183** (2010) 164-174
Yu Nishihara, Kenichi Funakoshi, Yuji Higo, Noriyoshi Tsujino, Takaaki Kawazoe, Tomoaki Kubo, Akira Shimojuku, Hidenori Terasaki, Norimasa Nishiyama

18358
Preliminary Reports on in situ X-ray Observation of "Post-Perovskite" in $CaRuO_3$
Journal of Physics: Conference Series, **215** (2010) 012096
Daisuke Yamazaki, Eiji Ito, Takashi Yoshino, Xinzhuan Guo, Shuangming Shan, Masayuki Nishi, Yuji Higo, Kenichi Funakoshi

18361
P-V-T Equation of State of $Ca_3Al_2Si_3O_{12}$ Grossular Garnet
Physics and Chemistry of Minerals, **38** (2010) 85-94
Steeve Greaux, Yoshio Kono, Norimasa Nishiyama, Takehiro Kunimoto, Kohei Wada, Tetsuo Irifune

18537
High-pressure Two-dimensional Angle-dispersive X-ray Diffraction Measurement System Using a Kawai-type Multianvil Press at SPring-8
Journal of Physics: Conference Series, **215** (2010) 012027
Kenichi Funakoshi, Yuji Higo, Yu Nishihara

18538
In situ Viscosity Measurements of Liquid Fe-S Alloys at High Pressures
High Pressure Research, **30** (2010) 60-64
Kenichi Funakoshi

BL04B2

16376
Compressional Behavior of Solid $NeHe_2$ up to 90 GPa
Journal of Physics: Condensed Matter, **22** (2010) 095401
Hiroshi Fukui, Naohisa Hirao, Yasuo Ohishi, Alfred Baron

16666
Density Variations in Liquid Tellurium: Roles of Rings, Chains, and Cavities
Physical Review B, **81** (2010) 094202
Jaakko Akola, Robert Jones, Shinji Kohara, Takeshi Usuki, Eugene Bychkov

16710
Concentration Effects of Silver Ions on Forming Cooperative Conduction Path in Superionic Melts
Journal of the Physical Society of Japan, **79** (2010) 133-136
Shuuta Tahara, Hiroki Ueno, Koji Ohara, Yukinobu Kawakita, Shin'ichi Takeda, Shinji Kohara, Satoru Ohno

16735
Crystal Structure of $Li_7P_3S_{11}$ Studied by Neutron and Synchrotron X-ray Powder Diffraction
Journal of the Physical Society of Japan, **79** (2010) 87-89
Yohei Onodera, Kazuhiro Mori, Toshiya Otomo, Alex Hannon, Shinji Kohara, Keiji Itoh, Masaaki Sugiyama, Toshiharu Fukunaga

16739
Lattice Distortion and Lithium Ionic Conduction Path in a Superionic Conductor with Perovskite Structure
Journal of the Physical Society of Japan, **79** (2010) 94-97
Koji Ohara, Yukinobu Kawakita, Shinji Kohara, László Pusztai, László Temleitner, Naoki Inoue, Shin'ichi Takeda

16740
Structural Study of Ag-Ge-Se Superionic Glass
Journal of the Physical Society of Japan, **79** (2010) 141-144
Koji Ohara, Rosantha Kumara, Yukinobu Kawakita, Shinji

Kohara, Masanori Hidaka, Shin'ichi Takeda

16777
Local Atomic Structure of $Ni_{60}Pd_{20}P_{20}$ and $Ni_{60}Pd_{20}P_{17}B_3$ Bulk Metallic Glasses and the Origin of Glass Forming Ability
Journal of Alloys and Compounds, **496** (2010) 135-139
Makoto Matsuura, Takeshi Fujita, Asahi Kawashima, Zeng Yuqiao, Hisamichi Kimura, Pengfei Guan, Mingwei Chen, Akihisa Inoue, Kazuya Konno, Kaku Asada

16808
Partial Radial Distribution Functions of Methylene Halide Molecular Liquids
Journal of Molecular Liquids, **153** (2010) 112-116
Szilvia Pothoczki, Shinji Kohara, Laszlo Pusztai

16839
Dense Yttria Phase Eclipsing the A-type Sesquioxides Structure: High-Pressure Experiments and ab initio Calculations
Inorganic Chemistry, **49** (2010) 4478-4485
Hitoshi Yusa, Taku Tsuchiya, Nagayoshi Sata, Yasuo Ohishi

16987
In-situ Observation of Solidification of Bulk Metallic Glass Forming Alloys from Supercooled Liquid by Using High Energy X-ray Diffraction Combined with Levitation Techniques
Materials Science Forum, **638-642** (2010) 1677-1682
Masahito Watanabe, Akitoshi Mizuno, Toshihiko Akimoto, Shinji Kohara

17032
Wide Angle X-ray Scattering Measurements of Supercritical Water using Synchrotron Radiation
Journal of Physics: Conference Series, **215** (2010) 012090
Masanori Inui, Yukio Kajihara, Yasushi Azumi, Kazuhiro Matsuda, Kozaburo Tamura

17145
Pressure-Induced Spin-State Transition in $BiCoO_3$
Journal of the American Chemical Society, **132** (2010) 9438-9443
Kengo Oka, Masaki Azuma, Wei-Tin Chen, Hitoshi Yusa, Alexei Belik, Eiji Takayama-Muromachi, Masaichiro Mizumaki, Naoki Ishimatsu, Nozomu Hiraoka, Masahiko Tsujimoto, Matthew Tucker, Paul Attfield, Yuichi Shimakawa

17448
Pressure-Induced Phase Transition, Metallization and Superconductivity in Boron Triiodide
Physical Review B, **82** (2010) 094506
Nozomu Hamaya, Miyuki Ishizuka, Suzue Onoda, Keizen Kyou, Ayako Ohmura, Katsuya Shimizu

17486
Structural Disorder in Lithium Lanthanum Titanate: the Basis of Superionic Conduction
Journal of Physics: Condensed Matter, **22** (2010) 404203
Koji Ohara, Yukinobu Kawakita, Laszlo Pusztai, Laszlo Temleitner, Shinji Kohara, Naoki Inoue, Shin'ichi Takeda

17520
Local Crystal Structure of Nano-Manganese-Oxide Gold Adsorbent
Journal of Physics and Chemistry of Solids, **71** (2010) 1603-1608
Satoshi Iikubo, Hideki Koyanaka, Shinichi Shamoto, Ken Takeuchi, Shinji Kohara, Katsuaki Kodama, Chun-Keung Loong

17522
Dependence of the Conformational Isomerism in 1-*n*-Butyl-3-methylimidazolium Ionic Liquids on the Nature of the Halide Anion
The Journal of Physical Chemistry B, **114** (2010) 11715-11724
Yasuhiro Umebayashi, Hiroshi Hamano, Seiji Tsuzuki, José N. Canongia Lopes, Agilio A. H. Pádua, Yasuo Kameda, Shinji Kohara, Taishi Yamaguchi, Kenta Fujii, Shin-ichi Ishiguro

17523
Structure of Liquid and Glassy $ZnCl_2$
Physical Review B, **82** (2010) 104208
Anita Zeidler, Philip Salmon, Richard A. Martin, Takeshi Usuki, Philip E. Mason, Gabriel J. Cuello, Shinji Kohara, Henry E. Fischer

17547
Changes in the Medium-Range Order of Zeolite A by Mechanical and Thermal Amorphization
Microporous and Mesoporous Materials, **136** (2010) 92-96
Toru Wakihara, Kaku Satou, Shinji Kohara, Gopinathan Sankar, Junichi Tatami, Junichi Komeya, Takeshi Meguro, Kenneth J. D. MacKenzie

17596
Structure of a Prototypic Ionic Liquid: Ethyl-methylimidazolium Bromide
The Journal of Physical Chemistry B, **114** (2010) 12623-12628
Bachir Aoun, Andreas Goldbach, Shinji Kohara, Jean-François Wax, Miguel A. González, Marie-Louise Saboungi

17605
On the Structure of Aqueous Cesium Bromide Solutions: Diffraction Experiments, Molecular Dynamics Simulations and Reverse Monte Carlo Modeling
Journal of Molecular Liquids, **157** (2010) 36-42
Viktoria Mile, Orsolya Gereben, Shinji Kohara, Laszlo Pusztai

17788
Lead Silicate Glasses: Binary Network-Former Glasses with Large amounts of Free Volume
Physical Review B, **82** (2010) 134209
Shinji Kohara, Hideo Ohno, Masaki Takata, Takeshi Usuki, Hidetoshi Morita, Kentaro Suzuya, Jaakko Akola, Laszlo Pusztai

18092
Structural Changes in Femtosecond Laser Modified Regions inside Fused Silica
Journal of Optics, **12** (2010) 124007
Saulius Juodkazis, Shinji Kohara, Yasuo Ohishi, Naohisa Hirao, Arturas Vailionis, Vygantas Mizeikis, Akira Saito, Andrei Rode

18190
An Approach towards Understanding the Structure of Complex Molecular Systems: the Case of Lower Aliphatic Alcohols
Journal of Physics: Condensed Matter, **22** (2010) 404214
Alexander Vrhovsek, Orsolya Gereben, Szilvia Pothoczki, Matija Tomsic, Andrej Jamnik, Shinji Kohara, Laszlo Pusztai

18191
The Liquid Structure of Haloforms $CHCl_3$ and $CHBr_3$
Journal of Physics: Condensed Matter, **22** (2010) 404211
Szilvia Pothoczki, László Temleitner, Shinji Kohara, Pál Jóvári, László Pusztai

18198
Time-Resolved X-ray Diffraction during Container less Solidification of Zr-Based Alloys
日本マイクログラビティ応用学会誌 (Journal of the Japan Society of Microgravity Application), **27** (2010) 222-226
Akitoshi Mizuno, Hiroyuki Oka, Toshihiko Akimoto, Y. Yokoyama, Masayoshi Itou, Shinji Kohara, Masahito Watanabe

18239
Intermediate-Range Order in Polymer-Route Si-C-O Fibers by High-Energy X-Ray Diffraction and Reverse Monte Carlo Modelling
Ceramic Transactions, **213** (2010) 33-38
Kentaro Suzuya, Shinji Kohara, Kiyohito Okamura, Hiroshi Ichikawa, Kenji Suzuki

18937
Study on the Lithium Ionic Conduction Path in Perovskite Crystal Including the Random Distribution of Lithium and Lanthanum Ions
Doctoral Thesis (Kyushu University), (2010)
Koji Ohara

BL08W

16420
Bulk Electronic Structure of Optimally Doped $Ba(Fe_{1-x}Co_x)_2As_2$
Physical Review B, **81** (2010) 064509
Claudia Utfeld, Jude Laverock, Thomas Haynes, Stephen Dugdale, Jonathan Duffy, Matthew Butchers, Jonathan Taylor, Sean Giblin, James Analytis, Jiun-Haw Chu, Ian Fisher, Masayoshi Itou, Yoshiharu Sakurai

16792
Spin and Orbital Moments in Fe_3O_4
Physical Review B, **81** (2010) 134424
Jonathan Duffy, Jonathan Taylor, Stephen Dugdale, Matthew Butchers, Caroline Shenton-Taylor, Sean Giblin, Malcolm Cooper, Yoshiharu Sakurai, Masayoshi Itou

16859
Eu Charge and Atomic Dynamics in $Eu_3Pd_{20}Ge_6$ Investigated by ^{151}Eu Mössbauer Effect
Journal of Physics: Conference Series, **217** (2010) 012123
Satoshi Tsutsui, Yoshio Kobayashi, Yasuhiro Kobayashi, Satoshi Higashitaniguchi, Yoshitaka Yoda, Makoto Seto, Toshiro Takabatake

17351
Spin Dependent Compton Scattering Study of Magnetic Transitions in Ir Doped $CeFe_2$
Journal of Applied Physics, **108** (2010) 043902
Babulal Ahuja, Balkrishna Sharma, Vinod Purvia, Shailja Tiwari, Akihisa Koizumi, Toshihiro Nagao, Yoshiharu Sakurai, Nobuhiko Sakai

17445
Polarimetric Performance of Si/CdTe Semiconductor Compton Camera
Nuclear Instruments and Methods in Physics Research Section A, **622** (2010) 619-627
Shinichiro Takeda, Hirokazu Odaka, Junichiro Katsuta, Shin-

nosuke Ishikawa, Soichiro Sugimoto, Yuu Koseki, Shin Watanabe, Goro Sato, Motohide Kokubun, Tadayuki Takahashi, Kazuhiro Nakazawa, Yasushi Fukazawa, Hiroyasu Tajima, Hidenori Toyokawa

17683
The Role of Single Element Errors in Planar Parabolic Compound Refractive Lenses
Journal of Synchrotron Radiation, **17** (2010) 616-623
Andrzej Andrejczuk, Jacek Krzywunski, Yoshiharu Sakurai, Masayoshi Itou

17686
Perpendicular Magnetic Anisotropy in Co/Pt Multilayers Studied from a View Point of Anisotropy of Magnetic Compton Profiles
Applied Physics Letters, **96** (2010) 152505
Minoru Ota, Masayoshi Itou, Yoshiharu Sakurai, Akihisa Koizumi, Hiroshi Sakurai

17892
Competing Ferromagnetism and Superconductivity on FeAs Layers in $EuFe_2(As_{0.73}P_{0.27})_2$
Physical Review Letters, **105** (2010) 207003
Aamir Ahmed, Masayoshi Itou, Shenggao Xu, Zhu'an Xu, Guanghan Cao, Yoshiharu Sakurai, James Penner-Hahn, Aniruddha Deb

17955
Reversal of Orbital Magnetic Moment on Substitution of Bi in Multiferroic Co_2MnO_4: A Magnetic Compton Scattering Study
Applied Physics Letters, **97** (2010) 212502
Babulal Ahuja, Alpa Dashora, Narayan L. Heda, Shailja Tiwari, N. E. Rajeevan, Masayoshi Itou, Yoshiharu Sakurai, Ravi Kumar

17957
Temperature Dependent Spin Momentum Densities in Ni-Mn-In Alloys
Journal of Physics: Condensed Matter, **22** (2010) 446001
Babulal Ahuja, Alpa Dashora, Narayan L. Heda, Kaustubh R. Priolkar, Laxman Vadkhiya, Masayoshi Itou, Nelson Lobo, Yoshiharu Sakurai, Aparna Chakrabarti, Sanjay Singh, S. R. Barman

18198
Time-Resolved X-ray Diffraction during Container less Solidification of Zr-Based Alloys
日本マイクログラビティ応用学会誌 (Journal of the Japan Society of Microgravity Application), **27** (2010) 222-226
Akitoshi Mizuno, Hiroyuki Oka, Toshihiko Akimoto, Y. Yokoyama, Masayoshi Itou, Shinji Kohara, Masahito Watanabe

BL09XU

14820
Nuclear Resonant Time Spectra for ^{119}Sn in Co_2TiSn Heusler Alloy Films
Journal of Magnetism and Magnetic Materials, **322** (2010) 158-162
Edi Suharyadi, Takahiro Hori, Ko Mibu, Makoto Seto, Shinji Kitao, Takaya Mitsui, Yoshitaka Yoda

15936
Observation of Softened Fe Modes in K-Doped $BaFe_2As_2$ via ^{57}Fe Nuclear Resonant Inelastic Scattering
Journal of the Physical Society of Japan, **79** (2010) 013706
Satoshi Tsutsui, Chul-Ho Lee, Cedric Tassel, Yoshida Yoshiyuki, Yoshitaka Yoda, Kunihiro Kihou, Akira Iyo, Hiroshi Eisaki

17211
Anisotropic Phonon Density of States in FePt Nanoparticles with $L1_0$ Structure
Physical Review B, **81** (2010) 132302
Yoshinori Tamada, Ryo Masuda, Atsushi Togo, Shinpei Yamamoto, Yoshitaka Yoda, Isao Tanaka, Makoto Seto, Saburo Nasu, Teruo Ono

18270
Identification of Protein-Bound Dinitrosyl Iron Complexes by Nuclear Resonance Vibrational Spectroscopy
Journal of the American Chemical Society, **132** (2010) 6914-6916
Zachary Tonzetich, Hongxin Wang, Devrani Mitra, Christine E. Tinberg, Loi. H Do, Francis E. Jenney, Jr., Michael W. W. Adams, Stephen Cramer, Stephen Lippard

BL10XU

15927
Electrical Conductivities of Pyrolitic Mantle and MORB Materials up to the Lowermost Mantle Conditions
Earth and Planetary Science Letters, **289** (2010) 497-502
Kenji Ohta, Kei Hirose, Masahiro Ichiki, Katsuya Shimizu, Nagayoshi Sata, Yasuo Ohishi

15938
Sound Velocity Measurement in Liquid Water up to 25 GPa and

900 K: Implications for Densities of Water at Lower Mantle Conditions
Earth and Planetary Science Letters, **288** (2010) 479-485
Yuki Asahara, Motohiko Murakami, Yasuo Ohishi, Naohisa Hirao, Kei Hirose

16156
Pressure Induced Phase Transformation of $Ba_8Ga_{16}Ge_{30}$ Clathrate Studied by X-ray Diffraction and Raman Spectroscopy
Journal of Applied Physics, **107** (2010) 013517
Tetsuji Kume, Satoshi Ohno, Shigeo Sasaki, Hiroyasu Shimizu, Yasuo Ohishi, Norihiko Okamoto, Kyosuke Kishida, Katsushi Tanaka, Haruyuki Inui

16442
No Reactions Observed in Xe-Fe System even at Earth Core Pressure
Geophysical Research Letters, **37** (2010) L04302
Daisuke Hamane, Takehiko Yagi, Nagayoshi Sata, Takayuki Fujita, Taku Okada

16702
Application of Nano-Polycrystalline Diamond to Laser-Heated Diamond Anvil Cell Experiments
High Pressure Research, **30** (2010) 142-150
Hiroaki Ohfuji, Taku Okada, Takehiko Yagi, Hitoshi Sumiya, Tetsuo Irifune

16706
Phase Transition Boundary between B1 and B8 Structures of FeO up to 210 GPa
Physics of the Earth and Planetary Interiors, **179** (2010) 157-163
Haruka Ozawa, Kei Hirose, Shigehiko Tateno, Nagayoshi Sata, Yasuo Ohishi

16839
Dense Yttria Phase Eclipsing the A-type Sesquioxides Structure: High-Pressure Experiments and ab initio Calculations
Inorganic Chemistry, **49** (2010) 4478-4485
Hitoshi Yusa, Taku Tsuchiya, Nagayoshi Sata, Yasuo Ohishi

16865
Laser Heating in Nano-Polycrystalline Diamond Anvil Cell
Journal of Physics: Conference Series, **215** (2010) 012192
Hiroaki Ohfuji, Taku Okada, Takehiko Yagi, Hitoshi Sumiya, Tetsuo Irifune

16868
Ca-VI: A High-Pressure Phase of Calcium above 158 GPa
Physical Review B, **81** (2010) 140106
Yuki Nakamoto, Masafumi Sakata, Katsuya Shimizu, Hiroshi Fujihisa, Takahiro Matsuoka, Yasuo Ohishi, Takumi Kikegawa

16956
Synchrotron X-ray Diffraction Study for Crystal Structure of Solid Carbon Dioxide CO_2-V
Journal of Physics: Conference Series, **215** (2010) 012015
Yusuke Seto, Daisuke Hamane, Takaya Nagai, Nagayoshi Sata, Kiyoshi Fujino

16957
Pressure-Induced Spin Transition in $FeCO_3$-siderite Studied by X-ray Diffraction Measurements
Journal of Physics: Conference Series, **215** (2010) 012002
Takaya Nagai, Tomoki Ishido, Yusuke Seto, Daisuke Nishio-Hamane, Nagayoshi Sata, Kiyoshi Fujino

17011
The Equation of State of B2-type NaCl
Journal of Physics: Conference Series, **215** (2010) 012196
Shigeaki Ono

17012
High-Pressure Magnetic Transition in hcp-Fe
American Mineralogist, **95** (2010) 880-883
Shigeaki Ono, Takumi Kikegawa, Naohisa Hirao, Kenji Mibe

17013
Magnetic Transition of Iron Carbide at High Pressures
Physics of the Earth and Planetary Interiors, **180** (2010) 1-6
Shigeaki Ono, Kenji Mibe

17233
$CaCu_3Pt_4O_{12}$: The First Perovskite with the B Site Fully Occupied by Pt^{4+}
Inorganic Chemistry, **49** (2010) 6778-6780
Ikuya Yamada, Yuka Takahashi, Kenya Ohgushi, Norimasa Nishiyama, Ryoji Takahashi, Kohei Wada, Takehiro Kunimoto, Hiroaki Ohfuji, Yohei Kojima, Toru Inoue, Tetsuo Irifune

17392
Polymorphism Control of Superconductivity and Magnetism in Cs_3C_{60} Close to the Mott Transition
Nature, **466** (2010) 221-225
Alexey Ganin, Yasuhiro Takabayashi, Peter Jeglic, Denis Arcon,

Anton Potocnik, Peter Baker, Yasuo Ohishi, Martin McDonald, Manolis Tzirakis, Alec McLennan, George Darling, Masaki Takata, Matthew Rosseinsky, Kosmas Prassides

17442
Structural Stability of an Icosahedral Cd-Yb Ouasicrystal and Its Crystalline Approximant under High Pressure
Journal of Physics: Conference Series, **215** (2010) 012019
Tetsu Watanuki, Taku Sato, An-Pang Tsai

17603
Compression of FeSi, Fe_3C, $Fe_{0.95}O$, and FeS under the Core Pressures and Implication for Light Element in the Earth's Core
Journal of Geophysical Research, **115** (2010) B09204
Nagayoshi Sata, Kei Hirose, GuoYin Shen, Yoichi Nakajima, Yasuo Ohishi, Naohisa Hirao

17604
High-temperature Compression of Ferropericlase and the Effect of Temperature on Iron Spin Transition
Earth and Planetary Science Letters, **297** (2010) 691-699
Tetsuya Komabayashi, Kei Hirose, Yukio Nagaya, Emiko Sugimura, Yasuo Ohishi

17667
The Structure of Iron in Earth's Inner Core
Science, **330** (2010) 359-361
Shigehiko Tateno, Kei Hirose, Yasuo Ohishi, Yoshiyuki Tatsumi

17668
Structural Distortion of $CaSnO_3$ Perovskite under Pressure and the Quenchable Post-Perovskite Phase as a Low-Pressure Analogue to $MgSiO_3$
Physics of the Earth and Planetary Interiors, **181** (2010) 54-59
Shigehiko Tateno, Kei Hirose, Nagayoshi Sata, Yasuo Ohishi

17714
Superconducting and Structural Transitions in the β-Pyrochlore Oxide KOs_2O_6 under High Pressure
Journal of the Physical Society of Japan, **79** (2010) 114710
Hiroki Ogusu, Nao Takeshita, Koichi Izawa, Junichi Yamaura, Yasuo Ohishi, Satoshi Tsutsui, Yoshihiko Okamoto

17793
Thermoelastic Properties of Ice VII and Its High-pressure Polymorphs: Implications for Dynamics of Cold Slab Subduction in the Lower Mantle
Earth and Planetary Science Letters, **299** (2010) 474-482
Yuki Asahara, Kei Hirose, Yasuo Ohishi, Naohisa Hirao, Motohiko Murakami

17905
High-Pressure Experimental Evidence for Metal FeO with Normal NiAs-type Structure
Physical Review B, **82** (2010) 174120
Kenji Ohta, Kei Hirose, Katsuya Shimizu, Yasuo Ohishi

17906
The Electrical Resistance Measurements of (Mg, Fe)SiO_3 Perovskite at High Pressures and Implications for Electronic Spin Transition of Iron
Physics of the Earth and Planetary Interiors, **180** (2010) 154-158
Kenji Ohta, Kei Hirose, Katsuya Shimizu, Nagayoshi Sata, Yasuo Ohishi

17963
Simultaneous High-Pressure and High-Temperature Volume Measurements of Ice VII and Its Thermal Equation of State
Physical Review B, **82** (2010) 134103
Emiko Sugimura, Tetsuya Komabayashi, Kei Hirose, Nagayoshi Sata, Yasuo Ohishi, Leonid Dubrovinsky

18026
Decomposition of Perovskite $FeTiO_3$ into Wüstite $Fe_{1-x}Ti_{0.5x}O$ and Orthorhombic $FeTi_3O_7$ at High Pressure
Physical Review B, **82** (2010) 092103
Daisuke Hamane, Takehiko Yagi, Masahiro Ohshiro, Ken Niwa, Taku Okada, Yusuke Seto

18302
Evidence from X-ray Diffraction of Orientational Ordering in Phase III of Solid Hydrogen at Pressures up to 183 GPa
Physical Review B, **82** (2010) 060101(R)
Yuichi Akahama, Manabu Nishimura, Haruki Kawamura, Yasuo Ohishi, Naohisa Hirao, Kenichi Takemura

18303
Raman Scattering and X-ray Diffraction Experiments for Phase III of Solid Hydrogen
Journal of Physics: Conference Series, **215** (2010) 012056
Yuichi Akahama, Haruki Kawamura, Yasuo Ohishi, Naohisa Hirao, Kenichi Takemura

18304
Pressure Calibration of Diamond Anvil Raman Gauge to 410 GPa
Journal of Physics: Conference Series, **215** (2010) 012195

Yuichi Akahama, Haruki Kawamura

18455
Fe-Mg Partitioning between Post-Perovskite and Ferropericlase in the Lowermost Mantle
Physics and Chemistry of Minerals, **37** (2010) 487-496
Takeshi Sakai, Eiji Ohtani, Hidenori Terasaki, Masaaki Miyahara, Masahiko Nishijima, Naohisa Hirao, Yasuo Ohishi, Nagayoshi Sata

18456
Melting of Iron-Silicon Alloy up to the Core-Mantle Boundary Pressure: Implications to the Thermal Structure of the Earth's Core
Physics and Chemistry of Minerals, **37** (2010) 353-359
Hidetoshi Asanuma, Eiji Ohtani, Takeshi Sakai, Hidenori Terasaki, Seiji Kamada, Tadashi Kondo, Takumi Kikegawa

18457
Phase Relationship of the Fe-FeS System in Conditions up to the Earth's Outer Core
Earth and Planetary Science Letters, **294** (2010) 94-100
Seiji Kamada, Hidenori Terasaki, Eiji Ohtani, Takeshi Sakai, Takumi Kikegawa, Yasuo Ohishi, Naohisa Hirao, Nagayoshi Sata, Tadashi Kondo

BL13XU

16190
Real-time *in situ* Nanoclustering during Initial Stages of Artificial Aging of Al-Cu Alloys
Journal of Applied Physics, **107** (2010) 024303
Nadia Zatsepin, Rouben Dilanian, Andrei Nikulin, Xiang Gao, Barrington C. Muddle, Victor N. Matveev, Osami Sakata

16725
Catalytically Active Structure of Bi Deposited on a Au(111) Electrode for the Hydrogen Peroxide Reduction Reaction
Langmuir, **26** (2010) 4590-4593
Masashi Nakamura, Narumasa Satou, Nagahiro Hoshi, Osami Sakata

16972
Melting Behavior of Epitaxially Crystallized Polycarprolactone on a Highly Oriented Polyethylene Thin Film Investigated by *in Situ* Synchrotron SAXS and Polarized Infrared Spectroscopy
Macromolecules, **43** (2010) 5315-5322
Yongxin Duan, Jianming Zhang, Haibo Chang, Shouke Yan, ChunMing Yang, Isao Takahashi, Yukihiro Ozaki

17033
Microarea Strain Analysis in GaN-based Laser Diodes Using High-Resolution Microbeam X-ray Diffraction
Physica Status Solidi B, **247** (2010) 1707-1709
Toshiya Yokogawa, Ryo Kato, Shigeru Kimura, Osami Sakata

17110
Monolithic Self-Sustaining Nanographene Sheet Grown Using Plasma-Enhanced Chemical Vapor Deposition
Physica Status Solidi A, **207** (2010) 139-143
Wakana Takeuchi, Keigo Takeda, Mineo Hiramatsu, Yutaka Tokuda, Hiroyuki Kano, Shigeru Kimura, Osami Sakata, Hiroo Tajiri, Masaru Hori

17168
Effect of Surface Molecular Aggregation State and Surface Molecular Motion on Wetting Behavior of Water on Poly (fluoroalkyl methacrylate) Thin Films
Macromolecules, **43** (2010) 454-460
Koji Honda, Masamichi Morita, Osami Sakata, Sono Sasaki, Atsushi Takahara

17860
Surface Nano-Architecture of A Metal-Organic Framework
Nature Materials, **9** (2010) 565-571
Rie Makiura, Soichiro Motoyama, Yasushi Umemura, Hiroaki Yamanaka, Osami Sakata, Hiroshi Kitagawa

17862
Porous Porphyrin Nano-Architectures on Surfaces
European Journal of Inorganic Chemistry, **2010** (2010) 3715-3724
Rie Makiura, Hiroshi Kitagawa

17904
A Grazing Incidence Small-Angle X-ray Scattering Analysis on Capped Ge Nanodots in Layer Structures
Journal of Physics: Condensed Matter, **22** (2010) 474003
Hiroshi Okuda, Masayuki Kato, Keiji Kuno, Shojiro Ochiai, Noritaka Usami, Kazuo Nakajima, Osami Sakata

17941
Liquid-Crystal Periodic Zigzags from Geometrical and Surface-Anchoring-Induced Confinement: Origin and Internal Structure from Mesoscopic Scale to Molecular Level
Physical Review E, **82** (2010) 041705

Dong Ki Yoon, Jinhwan Yoon, Yun Ho Kim, M. C. Choi, Jehan Kim, Osami Sakata, Shigeru Kimura, Mahn Won Kim, Ivan I. Smalyukh, Noel A. Clark, Moonhor Ree, Hee-Tae Jung

18012
Synchrotron X-ray Diffraction Study on a Single Nanowire of PX-Phase Lead Titanate
Journal of the European Ceramic Society, **30** (2010) 3259-3262
Tomoaki Yamada, Jin Wang, Osami Sakata, Cosmin Sandu, Zhanbing He, Takafumi Kamo, Shintaro Yasui, Nava Setter, Hiroshi Funakubo

18013
Structural Property and Electric Field Response of a Single Perovskite $PbTiO_3$ Nanowire using Micro X-ray Beam
Japanese Journal of Applied Physics, **49** (2010) 09MC09
Tomoaki Yamada, Jin Wang, Osami Sakata, Hidenori Tanaka, Yoshitaka Ehara, Shintaro Yasui, Nava Setter, Hiroshi Funakubo

18148
X-Ray Microdiffraction Study on Crystallinity of Micron-Sized Ge Films Selectively Grown on Si(001) Substrates
ECS Transactions, **33** (2010) 887-892
Kohei Ebihara, Shinji Harada, Jun Kikkawa, Yoshiaki Nakamura, Akira Sakai, Gang Wang, Matty Caymax, Yasuhiko Imai, Shigeru Kimura, Osami Sakata

18150
Structural Change of Direct Silicon Bonding Substrates by Interfacial Oxide Out-diffusion Annealing
Thin Solid Films, **518** (2010) S147-S150
Tetsuji Kato, Yoshiaki Nakamura, Jun Kikkawa, Akira Sakai, Eiji Toyoda, Koji Izunome, Osamu Nakatsuka, Shigeaki Zaima, Yasuhiko Imai, Shigeru Kimura, Osami Sakata

18782
Structural and Electronic Properties of Extremely Long Electron-Conductive Perylene Bisimide Nanofibers Formed through a Stoichiometrically-Mismatched Complexation between Complimentary Multiple Hydrogen-Bonding Modules
Small, **6** (2010) 2731-2740
Shiki Yagai, Tomohiro Seki, Haruno Murayama, Yusuke Wakikawa, Tadaaki Ikoma, Yoshihiro Kikkawa, Takashi Karatsu, Akihide Kitamura, Yoshihito Honsho, Shu Seki

18882
High-Angular-Resolution Microbeam X-Ray Diffraction with CCD Detector
AIP Conference Proceedings, **1221** (2010) 30-32
Yasuhiko Imai, Shigeru Kimura, Osami Sakata, Akira Sakai

19052
Construction and Development of Functional Nanostructures Based on Organic-Inorganic Hybrid Materials
Doctor Thesis (Kyushu University), (2010)
Rie Makiura

BL14B2

15804
In situ XAFS Study of the Sulfidation of Co-Mo/B_2O_3/Al_2O_3 Hydrodesulfurization Catalysts Prepared by using Citric Acid as a Chelating Agent
Applied Catalysis A: General, **373** (2010) 214-221
Takeshi Kubota, Nino Rinaldi, Kazu Okumura, Tetsuo Honma, Sayaka Hirayama, Yasuaki Okamoto

16157
Study of Charge Density and Crystal Structure of $(La_{0.75}Sr_{0.25})MnO_{3.00}$ and $(Ba_{0.5}Sr_{0.5})(Co_{0.8}Fe_{0.2})O_{2.33-\delta}$ at 500-900 K by *in situ* Synchrotron X-ray Diffraction
Journal of Alloys and Compounds, **491** (2010) 527-535
Takanori Itoh, Saori Shirasaki, Fujie Yoshinori, Naoto Kitamura, Yasushi Idemoto, Keiichi Osaka, Hironori Ofuchi, Sayaka Hirayama, Tetsuo Honma, Ichiro Hirosawa

16481
Enantioselective Hydrogenation of Olefins using Commercially Available Pd/C. Chiral Heterogeneous Catalyst Applicable for High-Throughput Screening
Topics in Catalysis, **53** (2010) 116-122
TaeYeon Kim, Takayuki Uchida, Hiroyuki Ogawa, Yuriko Nitta, Tadashi Okuyama, Takashi Sugimura, Sayaka Hirayama, Tetsuo Honma, Takahiro Sugiura, Takeshi Kubota, Yasuaki Okamoto

16704
In-situ Observation of Ni-Mo-S Phase Formed on NiMo/Al_2O_3 Catalyst Sulfided at High Pressure by Means of Ni and Mo K-edge EXAFS Spectroscopy
Journal of Synchrotron Radiation, **17** (2010) 414-424
Naoto Koizumi, Yusuke Hamabe, Sungbong Jung, Yasuhiro Suzuki, Shohei Yoshida, Muneyoshi Yamada

16705
Quasi *in-situ* Ni *K*-edge EXAFS Investigation of the Spent NiMo Catalyst from Ultra Deep Hydrodesulfurization of Gas

Oil in a Commercial Plant
Journal of Synchrotron Radiation, **17** (2010) 530-539
Yusuke Hamabe, Sungbong Jung, Hikotaro Suzuki, Naoto Koizumi, Muneyoshi Yamada

16794
Structures of the Icosahedral Clusters in Ni-Nb-Zr-H Glassy Alloys Determined by First-Principles Molecular Dynamics Calculation and XAFS Measurements
Journal of Alloys and Compounds, **497** (2010) 182-187
Mikio Fukuhara, Nobuhisa Fujima, Hiroshi Oji, Akihisa Inoue, Shuichi Emura

16809
Epitaxial Lift-Off for Sample Preparation of X-ray Absorption Fine Structure
Review of Scientific Instruments, **81** (2010) 043903
Kotaro Higashi, Fumitaro Ishikawa, Katsumi Handa, Shuichi Emura, Masahiko Kondow

16841
Structural Defects Working as Active Oxygen-Reduction Sites in Partially-Oxidized Ta-Carbonitride Core-Shell Particles Probed by Using Surface-Sensitive Conversion-Electron-Yield X-ray Absorption Spectroscopy
Applied Physics Letters, **96** (2010) 191905
Hideto Imai, Masashi Matsumoto, Takashi Miyazaki, Shinji Fujieda, Akimitsu Ishihara, Motoko Tamura, Ken-ichiro Ota

16970
Complete Hydrodechlorination of DDT and Its Derivatives Using a Hydroxyapatite-Supported Pd Nanoparticle Catalyst
Chemistry Letters, **39** (2010) 49-51
Norifumi Hashimoto, Takayoshi Hara, Shogo Shimazu, Yuusuke Takahasi, Takato Mitsudome, Tomoo Mizugaki, Koichiro Jitsukawa, Kiyotomi Kaneda

17018
Direct Synthesis of a Carbonaceous Fuel Cell Catalyst from Solid Containing Small Organic Molecules and Metal Salts
Carbon, **48** (2010) 3271-3276
Jun Maruyama, Nobutaka Fukui, Masayuki Kawaguchi, Takahiro Hasegawa, Hiroaki Kawano, Tomoko Fukuhara, Satoshi Iwasaki

17060
Structure of Zirconium(IV) in Aqueous Zirconium Chloride Solutions as Studied by Zr-K Edge Extended X-ray Absorption Fine Structure Analysis
分析化学 (Bunseki Kagaku), **59** (2010) 447-454
Fumiyuki Takasaki, Risa Suzuki, Nobuaki Ogawa, Toshihisa Suzuki, Yasushi Nakajima, Takahiro Wakita

17162
Full-Automatic XAFS Measurement System of the Engineering Science Research II beamline BL14B2 at SPring-8
AIP Conference Proceedings, **1234** (2010) 13-16
Tetsuo Honma, Hiroshi Oji, Sayaka Hirayama, Yosuke Taniguchi, Hironori Ofuchi, Masafumi Takagaki

17451
Partially Oxidized Niobium Carbonitride as a Non-Platinum Catalyst for the Reduction of Oxygen in Acidic Medium
Electrochimica Acta, **55** (2010) 7290-7297
Kyung-Don Nam, Akimitsu Ishihara, Koichi Matsuzawa, Shigenori Matsushima, Ken-ichiro Ota, Masashi Matsumoto, Hideto Imai

17479
Structural Characterization of Amorphous Ta_2O_5 and SiO_2-Ta_2O_5 Used as Solid Electrolyte for Nonvolatile Switches
Applied Physics Letters, **97** (2010) 113507
Naoki Banno, Toshitsugu Sakamoto, Noriyuki Iguchi, Masashi Matsumoto, Hideto Imai, Toshinari Ichihashi, Shinji Fujieda, Kazuhiko Tanaka, Satoshi Watanabe, Shu Yamaguchi, Tsuyoshi Hasegawa, Masakazu Aono

17703
Iron-Catalyzed Suzuki-Miyaura Coupling of Alkyl Halides
Journal of the American Chemical Society, **132** (2010) 10674-10676
Takuji Hatakeyama, Toru Hashimoto, Yoshiyuki Kondo, Yuichi Fujiwara, Hirofumi Seike, Hikaru Takaya, Yoshinori Tamada, Teruo Ono, Masaharu Nakamura

17704
Nickel-Catalyzed Alkenylative Cross-Coupling Reaction of Alkyl Sulfides
Journal of the American Chemical Society, **132** (2010) 13117-13119
Kentaro Ishizuka, Hirofumi Seike, Takuji Hatakeyama, Masaharu Nakamura

17842
Anomalous Eu Layer Doping in Eu, Si Co-doped Aluminium Nitride Based Phosphor and Its Direct Observation
Journal of Materials Chemstry, **20** (2010) 9948-9953

Takashi Takeda, Naoto Hirosaki, Rongjun Xie, Koji Kimoto, Mitsuhiro Saito

18180
Synthesis of Gallium-Aluminum Dawsonites and Their Crystal Structures
Journal of the American Ceramic Society, **93** (2010) 3908-3915
Tsunenori Watanabe, Takeo Masuda, Yoshihisa Miki, Yuya Miyahara, Hyungjoon Jeon, Saburo Hosokawa, Hiroyoshi Kanai, Hiroshi Deguchi, Masashi Inoue

18298
The First Step Status of Cadmium Telluride Pixel Detector Development at SPring-8
KEK Proceedings, **2010** (2010) 220-225
Hidenori Toyokawa, Toko Hirono, Morihiro Kawase, Yukito Furukawa, Toru Ohata, Hirokazu Ikeda, Goro Sato, Shin Watanabe, Tadayuki Takahashi

18404
Oxidation of Green Rust Suspensions Containing Different Chromium Ion Species
Corrosion Science, **52** (2010) 1421-1427
Katsuya Inoue, Kozo Shinoda, Shigeru Suzuki, Yoshio Waseda

18562
Microbial Reduction and Recovery of Palladium Using MetalIon-Reducing Bacterium *Shewanella algae*
化学工学論文集 (Kagaku Kogaku Ronbunshu), **36** (2010) 288-292
Koushirou Tamaoki, Norizo Saito, Takashi Ogi, Toshiyuki Nomura, Yasuhiro Konishi

18785
Electronic Structure of Pt-Co Cathode Catalysts in Membrane Electrolyte Assembly Observed by X-ray Absorption Fine Structure Spectroscopy with Different Probing Depth
Journal of Electron Spectroscopy and Related Phenomena, **181** (2010) 239-241
Masaki Kobayashi, Shoichi Hidai, Hideharu Niwa, Yoshihisa Harada, Masaharu Oshima, Hironori Ofuchi, Yoji Nakamori, Tsutomu Aoki

BL19B2

16157
Study of Charge Density and Crystal Structure of $(La_{0.75}Sr_{0.25})MnO_{3.00}$ and $(Ba_{0.5}Sr_{0.5})(Co_{0.8}Fe_{0.2})O_{2.33-\delta}$ at 500-900 K by *in situ* Synchrotron X-ray Diffraction
Journal of Alloys and Compounds, **491** (2010) 527-535
Takanori Itoh, Saori Shirasaki, Fujie Yoshinori, Naoto Kitamura, Yasushi Idemoto, Keiichi Osaka, Hironori Ofuchi, Sayaka Hirayama, Tetsuo Honma, Ichiro Hirosawa

16182
Physicochemical Understanding of Polymorphism and Solid-State Dehydration/Rehydration Processes for the Pharmaceutical Material Acrinol, by Ab Initio Powder X-ray Diffraction Analysis and Other Techniques
The Journal of Physical Chemistry C, **114** (2010) 580-586
Kotaro Fujii, Hidehiro Uekusa, Naoko Itoda, Gen Hasegawa, Etsuo Yonemochi, Katsuhide Terada, Zhigang Pan, Kenneth Harris

16656
Study of Oxygen Ion Diffusion in $(Ba_{0.5}Sr_{0.5})(Co_{0.8}Fe_{0.2})O_{2.33-\delta}$ through *in-situ* Neutron Diffractions at 300 and 720 K
Physica B, **405** (2010) 2091-2096
Takanori Itoh, Takene Hirai, Junichi Yamashita, Syouji Watanabe, Etsuya Kawata, Naoto Kitamura, Yasushi Idemoto, Naoki Igawa

16793
In-Situ X-ray Diffraction under Hydrothermal Condition Using Synchrotron Radiation and Its Application to Tobermorite Formation Reaction
分析化学 (Bunseki Kagaku), **59** (2010) 287-292
Jun Kikuma, Masamichi Tsunashima, Tetsuji Ishikawa, Shinya Matsuno, Akihiro Ogawa, Kunio Matsui, Masugu Sato

16877
Effect of Li Content on Electronic Structure by First-Principle Calculation for $Li_{1+x}Ni_{0.5}Mn_{0.5}O_2$ Cathode Active Material of Lithium-Ion Battery
Electrochemistry, **78** (2010) 367-369
Yasushi Idemoto, Naoto Kitamura, Oki Sekizawa

16878
Crystal and Electronic Structures of $Bi_4(Ti, Si)_3O_{12}$ Ferroelectrics
粉体および粉末冶金 (Journal of the Japan Society of Powder and Powder Metallurgy), **57** (2010) 191-197
Yasushi Idemoto, Hirotaka Kotani, Naoto Kitamura

16943
Selective Transformation Pathways between Crystalline Forms of an Organic Material Established from Powder X-ray Diffraction Analysis

Chemical Communications, **46** (2010) 4264-4266
Kotaro Fujii, Yasunari Ashida, Hidehiro Uekusa, Fang Guo, Kenneth Harris

16996
Formation Process of Autoclaved Lightweight Concrete Studied by *In-Situ* X-ray Diffraction under Hydrothermal Condition
分析化学 (Bunseki Kagaku), **59** (2010) 489-498
Jun Kikuma, Masamichi Tsunashima, Tetsuji Ishikawa, Shinya Matsuno, Akihiro Ogawa, Kunio Matsui, Masugu Sato

17020
Microscopic Magnetic Study on the Nominal Composition $Li[Li_{1/3}Mn_{5/3}]O_4$ by Muon-Spin Rotation/Relaxation Measurements
The Journal of Physical Chemistry C, **114** (2010) 11320-11327
Kazuhiko Mukai, Jun Sugiyama, Yutaka Ikedo, Hiroshi Nozaki, Kazuya Kamazawa, Daniel Andreica, Alex Amato, Martin Månsson, Jess H. Brewer, Eduardo J. Ansaldo, Kim H. Chow

17250
Crystal Structure of a New High-Pressure Polymorph of Topaz-OH
American Mineralogist, **95** (2010) 1349-1352
Masami Kanzaki

17450
Optical Properties and X-ray Absorption Fine Structure Analysis of ZnS:Cu,Cl Thin-Film Phosphors
Japanese Journal of Applied Physics, **49** (2010) 082602
Kunio Ichino, Haruki Kato, Yuuichirou Sakai, Koutoku Ohmi, Tetsuo Honma, Jun-ichi Itoh, Asuka Sasakura

17548
In Situ Time-Resolved X-ray Diffraction of Tobermorite Formation Process under Autoclave Condition
Journal of the American Ceramic Society, **93** (2010) 2667-2674
Jun Kikuma, Masamichi Tsunashima, Tetsuji Ishikawa, Shinya Matsuno, Akihiro Ogawa, Kunio Matsui, Masugu Sato

17595
Thermal Expansion Properties of $Sr_{1-x}La_xTiO_3$ ($0 \leq x \leq 0.3$) Perovskites in Oxidizing and Reducing Atmospheres
Journal of the Electrochemical Society, **157** (2010) 1783-1789
Zhenwei Wang, Masashi Mori, Takanori Itoh

17694
Dynamic Vapochromic Behaviors of Organic Crystals Based on the Open-Close Motions of S-Shaped Donor-Acceptor Folding Units
Chemistry - A European Journal, **16** (2010) 4793-4802
Eiji Takahashi, Hikaru Takaya, Takeshi Naota

18330
Structural and Thermal Gas Desorption Propertied of Metal Aluminum Amides
Journal of Alloys and Compounds, **506** (2010) 297-301
Taisuke Ono, Keiji Shimoda, Masami Tsubota, Satoshi Hino, Ken-ichi Kojima, Takayuki Ichikawa, Yoshitsugu Kojima

18336
The Advanced Automation for Powder Diffraction toward Industrial Application
AIP Conference Proceedings, **1234** (2010) 9-12
Keiichi Osaka, Takuya Matsumoto, Keiko Miura, Masugu Sato, Ichiro Hirosawa, Yoshio Watanabe

18918
Observation of Crack Propagation under Torsion Fatigue Tests by Synchrotron μCT Imaging
Procedia Engineering, **2** (2010) 1413-1419
Daiki Shiozawa, Yoshikazu Nakai, Tomonori Murakami

BL20B2

16236
A General Few-Projection Method for Tomographic Reconstruction of Samples Consisting of Several Distinct Materials
Applied Physics Letters, **96** (2010) 021105
Glenn Myers, Christopher Thomas, David Paganin, Timur Gureyev, John Clement

16495
A New Design for High Stability Pressure-Controlled Ventilation for Small Animal Lung Imaging
Journal of Instrumentation, **5** (2010) T02002
Marcus Kitchen, Anowarul Habib, Andreas Fouras, Stephen Dubsky, Rob Lewis, Megan Wallace, Stuart Hooper

16807
2D and 3D X-ray Phase Retrieval of Multi-Material Objects Using a Single Defocus Distance
Optics Express, **18** (2010) 6423-6436
Mario Beltran, David Paganin, Kentaro Uesugi, Marcus Kitchen

16818
Development of High Pressure Apparatus for X-ray Microtomography at SPring-8
Journal of Physics: Conference Series, **215** (2010) 012026
Satoru Urakawa, Hidenori Terasaki, Kenichi Funakoshi, Kentaro Uesugi, Syuhei Yamamoto

17070
Regular Structure Formation of Hypermonotectic Al-In Alloys
Materials Science Forum, **649** (2010) 131-136
Hideyuki Yasuda, Tomoya Nagira, Masato Yoshiya, Akira Sugiyama, Keiji Umetani, Kentaro Uesugi

17490
X-ray Phase, Absorption and Scatter Retrieval Using Two or More Phase Contrast Images
Optics Express, **18** (2010) 19994-20012
Marcus Kitchen, David Paganin, Kentaro Uesugi, Beth Allison, Rob Lewis, Stuart Hooper, Konstantin Pavlov

17544
Observation of Intravascular Changes of Superabsorbent Polymer Microsphere (SAP-MS) with Monochromatic X-ray Imaging
Cardiovascular and Interventional Radiology, **33** (2010) 1016-1021
Daigo Tanimoto, Katsuyosi Ito, Tsutomu Tamada, Keiji Umetani, Akira Yamamoto, Makito Kobatake

17953
Investigation of Imaging Properties of Mouse Eyes Using X-ray Phase Contrast Tomography
AIP Conference Proceedings, **1266** (2010) 57-61
Masato Hoshino, Kentaro Uesugi, Naoto Yagi, Satoshi Mohri

17973
Non-Destructive Observation of Meteorite Chips using Quantitative Analysis of Optimized X-ray Micro-computed Tomography
Earth and Planetary Science Letters, **299** (2010) 359-367
Masayuki Uesugi, Kentaro Uesugi, Mayumi Oka

18037
A High Precision Recipe for Correcting Images Distorted by a Tapered Fiber Optic
Journal of Instrumentation, **5** (2010) P09008
Muhammad Islam, Rob Lewis, Kentaro Uesugi, Marcus Kitchen

18145
Morphological Variation of Fe/Cr-rich Intermetallic Phase in Recycled Al-Si Alloy as a Function of Solidification Rate: Time-Resolved Radiography
Materials Science Forum, **654-656** (2010) 974-977
BongHwan Kim, SangMok Lee, Hideyuki Yasuda

BL20XU

14791
Submicrometer Tomographic Resolution Examined using a Micro-Fabricated Test Object
Micron, **41** (2010) 90-95
Ryuta Mizutani, Akihisa Takeuchi, R. Yoshiyuki Osamura, Susumu Takekoshi, Kentaro Uesugi, Yoshio Suzuki

15153
Three-dimensional Visualization and Analysis of Grain Deformation by Means of Synchrotron Radiation
Materials Science Forum, **638-642** (2010) 2523-2528
Masakazu Kobayashi, Hiroyuki Toda, Kentaro Uesugi

16193
X-ray Holographic Microscopy by Double-Prism Interferometer
Japanese Journal of Applied Physics, **49** (2010) 016601
Yoshio Suzuki, Akihisa Takeuchi, Ken Harada

16390
Computed Tomographic X-ray Velocimetry
Applied Physics Letters, **96** (2010) 023702
Stephen Dubsky, Robert Jamison, Sally Irvine, Karen Siu, Kerry Hourigan, Andreas Fouras

16394
Vector Tomographic X-ray Phase Contrast Velocimetry Utilizing Dynamic Blood Speckle
Optics Express, **18** (2010) 2368-2379
Sally Irvine, David Paganin, Robert Jamison, Stephen Dubsky, Andreas Fouras

16674
Influence of High-Temperature Solution Treatments on Mechanical Properties of an Al-Si-Cu Aluminum Alloy
Acta Materialia, **58** (2010) 2014-2025
Hiroyuki Toda, Takanori Nishimura, Kentaro Uesugi, Yoshio Suzuki, Masakazu Kobayashi

16941
Microtomographic Analysis of Neuronal Circuits of Human Brain Cerebral Cortex, **20** (2010) 1739-1748
Ryuta Mizutani, Akihisa Takeuchi, Kentaro Uesugi, Susumu Takekoshi, R. Yoshiyuki Osamura, Yoshio Suzuki

17066
Non-destructive Detection of Platinum-Bearing Mineral from Geological Sample by Subtraction Imaging with Synchrotron Radiation X-ray
Advances in Geosciences, **20** (2010) 47-56
Tetsu Kogiso, Katsuhiko Suzuki, Toshihiro Suzuki, Kentaro Uesugi

17070
Regular Structure Formation of Hypermonotectic Al-In Alloys
Materials Science Forum, **649** (2010) 131-136
Hideyuki Yasuda, Tomoya Nagira, Masato Yoshiya, Akira Sugiyama, Keiji Umetani, Kentaro Uesugi

17153
Three Dimensional Microstructure Characterization of an Al-Zn-Mg Alloy Foam Using Synchrotron X-ray Microtomography
Materials Science Forum, **654-656** (2010) 2358-2361
Qiang Zhang, Hiroyuki Toda, Masakazu Kobayashi, Yoshio Suzuki, Kentaro Uesugi

17154
3D Characterisation of Grain Deformation under Synchrotron Radiation
Materials Science Forum, **654-656** (2010) 2303-2306
Masakazu Kobayashi, Hiroyuki Toda, Kentaro Uesugi, Akihisa Takeuchi, Yoshio Suzuki

17159
Assessment of 3D Inhomogeneous Microstructure of Highly Alloyed Aluminium Foam via Dual Energy K-edge Subtraction Imaging
Philosophical Magazine, **90** (2010) 1853-1871
Qiang Zhang, Hiroyuki Toda, Yasutaka Takami, Yoshio Suzuki, Kentaro Uesugi, Masakazu Kobayashi

17171
Fabrication and Performance Test of Fresnel Zone Plate with 35 nm Outermost Zone Width in Hard X-Ray Region
X-Ray Optics and Instrumentation, **2010** (2010) 824387
Yoshio Suzuki, Akihisa Takeuchi, Hisataka Takenaka, Ikuo Okada

17173
Estimation of Presampling Modulation Transfer Function in Synchrotron Radiation Microtomography
Nuclear Instruments and Methods in Physics Research Section A, **621** (2010) 615-619
Ryuta Mizutani, Keisuke Taguchi, Akihisa Takeuchi, Kentaro Uesugi, Yoshio Suzuki

17244
On the Origin of Visibility Contrast in X-ray Talbot Interferometry
Optics Express, **18** (2010) 16890-16901
Wataru Yashiro, Atsushi Momose, Yuuki Terui, Katsuyuki Kawabata

17477
Proposal of a Method to Analyze 3D Deformation/Fracture Characteristics inside Materials Based on a Stratified
Machine Vision and Applications, **21** (2010) 687-694
Mitsuru Nakazawa, Masakazu Kobayashi, Hiroyuki Toda, Yoshimitsu Aoki

17696
A New Technique to Examine Individual Pollutant Particle and Fibre Deposition and Transit Behaviour in Live Mouse Trachea
Journal of Synchrotron Radiation, **17** (2010) 719-729
Martin Donnelley, Karen Siu, Kaye Morgan, William Skinner, Yoshio Suzuki, Akihisa Takeuchi, Kentaro Uesugi, Naoto Yagi, David Parsons

17784
X-ray Microfocusing by Combination of Grazing-Incidence Spherical-Concave Mirrors
Japanese Journal of Applied Physics, **49** (2010) 106701
Yoshio Suzuki, Akihisa Takeuchi

17785
Hard-x-ray Phase-imaging Microscopy Using the Self-imaging Phenomenon of a Transmission Grating
Physical Review A, **82** (2010) 043822
Wataru Yashiro, Sebastien Harasse, Akihisa Takeuchi, Yoshio Suzuki, Atsushi Momose

17882
Microscopic Observation of Aging of Silica Particles in Unvulcanized Rubber
Macromolecules, **43** (2010) 9480-9487
Yuya Shinohara, Hiroyuki Kishimoto, Naoto Yagi, Yoshiyuki

Amemiya

18139
The Projection Approximation and Edge Contrast for X-ray Propagation-Based Phase Contrast Imaging of a Cylindrical Edge
Optics Express, **18** (2010) 9865-9878
Kaye Morgan, Karen Siu, David Paganin

18140
Assessment of the Use of a Diffuser in Propagation-based X-ray Phase Contrast Imaging
Optics Express, **18** (2010) 13478-13491
Sally Irvine, Kaye Morgan, Yoshio Suzuki, Kentaro Uesugi, Akihisa Takeuchi, David Paganin, Karen Siu

18145
Morphological Variation of Fe/Cr-rich Intermetallic Phase in Recycled Al-Si Alloy as a Function of Solidification Rate: Time-Resolved Radiography
Materials Science Forum, **654-656** (2010) 974-977
BongHwan Kim, SangMok Lee, Hideyuki Yasuda

18209
Wood Identification of Wooden Mask Using a Synchrotron X-ray Microtomography
Journal of Archaeological Science, **37** (2010) 2842-2845
Suyako Mizuno, Ryoji Torizu, Junji Sugiyama

18405
Application of Synchrotron Microtomography for Pore Structure Characterization of Deteriorated Cementitious Materials Due to Leaching
Cement and Concrete Research, **40** (2010) 1265-1270
Takafumi Sugiyama, Michael Angelo Promentilla, Takashi Hitomi, Nobufumi Takeda

BL25SU

15562
Complete Assignment of Spin Domains in Antiferromagnetic NiO(100) by Photoemission Electron Microscopy and Cluster Model Calculation
Journal of the Physical Society of Japan, **79** (2010) 013703
Kuniaki Arai, Taichi Okuda, Arata Tanaka, Masato Kotsugi, Keiki Fukumoto, Masaki Oura, Yasunori Senba, Haruhiko Ohashi, Tetsuya Nakamura, Tomohiro Matsushita, Takayuki Muro, Akito Kakizaki, Toyohiko Kinoshita

16342
Co-concentration Dependance pf Half-Metallic Properties in Co-Mn-Si Epitaxial Films
Applied Physics Letters, **96** (2010) 092511
Yuya Sakuraba, Naoki Hirose, Mikihiko Oogane, Tetsuya Nakamura, Yasuo Ando, Koki Takanashi

16391
Soft X-ray Magnetic Circular Dichroism of $L2_1$-type Co_2FeGa Heusler Alloy
Journal of Physics D: Applied Physics, **43** (2010) 105001
Rie Umetsu, Tetsuya Nakamura, Kosei Kobayashi, Ryosuke Kainuma, Akimasa Sakuma, Kazuaki Fukamichi, Kiyohito Ishida

16667
Element-Specific Evaluation of Magnetic Moments in Ferrimagnetic Mn_2VAl Heusler Epitaxial Thin Films
日本応用磁気学会誌 (Journal of the Magnetics Society of Japan), **34** (2010) 100-106
Takahide Kubota, Kenji Kodama, Tetsuya Nakamura, Yuya Sakuraba, Mikihiko Oogane, Hiroshi Naganuma, Koki Takanashi, Yasuo Ando

17187
Magnetic Coupling between *A*' and *B* Sites in the *A*-site-ordered Perovskite $BiCu_3Mn_4O_{12}$
Physical Review B, **82** (2010) 024426
Takashi Saito, Wei-Tin Chen, Masaichiro Mizumaki, J. Paul Attfield, Yuichi Shimakawa

17212
Large Area Imaging by Fourier Transform Holography Using Soft and Hard X-ray
Applied Physics Express, **3** (2010) 085201
Naoki Awaji, Kenji Nomura, Shuuichi Doi, Shinji Isogami, Masakiyo Tsunoda, Kenji Kodama, Motohiro Suzuki, Tetsuya Nakamura

17337
Linear Correlation between Uncompensated Antiferromagnetic Spins and Exchange Bias in Mn-Ir/$Co_{100-x}Fe_x$ Bilayers
Applied Physics Letters, **97** (2010) 072501
Masakiyo Tsunoda, Hirokazu Takahashi, Tetsuya Nakamura, Chiharu Mitsumata, Shinji Isogami, Migaku Takahashi

17414
Stereo Atomscope and Diffraction Spectroscopy - Atomic Site Specific Property Analysis

Journal of Electron Spectroscopy and Related Phenomena, **178-179** (2010) 221-240
Fumihiko Matui, Tomohiro Matsushita, Hiroshi Daimon

17416
Atomic-Layer-Resolved Analysis of Surface Magnetism by Diffraction Spectroscopy
Journal of Electron Spectroscopy and Related Phenomena, **181** (2010) 150-153
Fumihiko Matui, Tomohiro Matsushita, Hiroshi Daimon

17446
Photoelectron Holography with Improved Image Reconstruction
Journal of Electron Spectroscopy and Related Phenomena, **178-179** (2010) 195-220
Tomohiro Matsushita, Fumihiko Matui, Hiroshi Daimon, Kouichi Hayashi

17997
Magnetic Configuration of Submicron-sized Magnetic Patterns in Domain Wall Motion Memory
Journal of Applied Physics, **107** (2010) 103912
Norikazu Ohshima, Hideaki Numata, Shunsuke Fukami, Kiyokazu Nagahara, Tetsuhiro Suzuki, Nobuyuki Ishiwata, Keiki Fukumoto, Toyohiko Kinoshita, Teruo Ono

18053
Electron Correlation in the FeSe Superconductor Studied by Bulk-Sensitive Photoemission Spectroscopy
Physical Review B, **82** (2010) 184511
Atsushi Yamasaki, Yohei Matsui, Shin Imada, Kouichi Takase, Hideyuki Azuma, Takayuki Muro, Yukako Kato, Atsushi Higashiya, Akira Sekiyama, Shigemasa Suga, Makina Yabashi, Kenji Tamasaku, Tetsuya Ishikawa, Kensei Terashima, Hiromi Kobori, A. Sugimura, N. Umeyama, Hirohiko Sato, Y. Hara, N. Miyagawa, S. I. Ikeda

18817
Spin and Orbital Ti Magnetism at $LaMnO_3/SrTiO_3$ Interfaces
Nature Communications, **1** (2010) 82
J. Garcia-Barriocanal, J. C. Cezar, F. Y. Bruno, P. Thakur, N. B. Brookes, Claudia Utfeld, A. Rivea-Calzada, Sean Giblin, Jonathan Taylor, Jonathan Duffy, Stephen Dugdale, Tetsuya Nakamura, Kenji Kodama, C. Leon, S. Okamoto, J. Santamaria

19057
Analysis on Photoemission Spectrum of Superconducting FeSe
Physica C, **470** (2010) S389-S390
Rikiya Yoshida, Takanori Wakita, Hiroyuki Okazaki, Yoshikazu Mizuguchi, Shunsuke Tsuda, Yoshihiko Takano, Hiroyuki Takeya, Kazuo Hirata, Yukako Kato, Takayuki Muro, Mario Okawa, Kyoko Ishizaka, Shik Shin, Hisatomo Harima, Masaaki Hirai, Yuji Muraoka, Takayoshi Yokoya

BL27SU

16396
Development of a Differential Pumping System for Soft X-ray Beamlines for Windowless Experiments under Normal Atmospheric Conditions
Journal of Synchrotron Radiation, **17** (2010) 243-249
Yusuke Tamenori

16446
Antiferromagnetic Interaction between *A*'-Site Mn Spins in *A*-Site-Ordered Perovskite $YMn_3Al_4O_{12}$
Inorganic Chemistry, **49** (2010) 2492-2495
Takenori Tohyama, Takashi Saito, Masaichiro Mizumaki, Akane Agui, Yuichi Shimakawa

16863
Soft X-ray Photoelectron Spectroscopy of Heusler-type Thermoelectric Alloys $Fe_{2-x-y}Ir_yV_{1+x}Al$
粉体および粉末冶金 (Journal of the Japan Society of Powder and Powder Metallurgy), **57** (2010) 213-217
Shouta Harada, Takeshi Ohwada, Manabu Inukai, Masahiko Kato, Shinya Yagi, Kazuo Soda, Hidetoshi Miyazaki, Yusuke Sandaiji, Takahiro Sugiura, Yoichi Nishino

16974
Doppler Effect in Fragment Autoionization Following Core-to-Rydberg Excitations of N_2
New Journal of Physics, **12** (2010) 063030
Eiji Shigemasa, Tatsuo Kaneyasu, Tomohiro Matsushita, Yusuke Tamenori, Yasumasa Hikosaka

17058
Crystallographic Orientation Dependence of Compositional Transition and Valence Band Offset at SiO_2/Si Interface Formed Using Oxygen Radicals
Applied Physics Letters, **96** (2010) 173103
Tomoyuki Suwa, Akinobu Teramoto, Yuki Kumagai, Kenichi Abe, Xiang li, Yukihisa Nakao, M. Yamamoto, Yukako Kato, Takayuki Muro, Toyohiko Kinoshita, Tadahiro Ohmi, Takeo Hattori

17128
Vacancy-Boron Complexes in Plasma Immersion Ion-Implanted Si Probed by a Monoenergetic Positron Beam
Japanese Journal of Applied Physics, **49** (2010) 051301
Akira Uedono, Kazuo Tsutsui, Shoji Ishibashi, Hiromichi Watanabe, Shoji Kubota, Yasumasa Nakagawa, Bunji Mizuno, Takeo Hattori, Hiroshi Iwai

17845
X-ray Absorption Spectra of SiF_4 and $Si(CH_3)_4$ in the Si *K*-shell Excitation Region
Journal of Physics: Conference Series, **235** (2010) 012018
Osamu Takahashi, Isao Suzuki, Yutaro Kohno, Akihiro Ikeda, Takao Ouchi, Kiyoshi Ueda, Itaru Higuchi, Yusuke Tamenori, Shin-ichi Nagaoka

17846
Projection of Excited Orbitals into Kinetic Energies of Emitted Electrons in Resonant Si *KLL* Auger Decays of SiF_4
Physical Review A, **82** (2010) 045401
Isao Suzuki, Yutaro Kohno, Akihiro Ikeda, Takao Ouchi, Kiyoshi Ueda, Osamu Takahashi, Itaru Higuchi, Yusuke Tamenori, Shin-ichi Nagaoka

17985
Feasibility Study on Anomalous Small-Angle X-ray Scattering Near Sulphur *K*-edge
Journal of Physics: Conference Series, **246** (2010) 012006
Masashi Handa, Yuya Shinohara, Hiroyuki Kishimoto, Yusuke Tamenori, Yoshiyuki Amemiya

18053
Electron Correlation in the FeSe Superconductor Studied by Bulk-Sensitive Photoemission Spectroscopy
Physical Review B, **82** (2010) 184511
Atsushi Yamasaki, Yohei Matsui, Shin Imada, Kouichi Takase, Hideyuki Azuma, Takayuki Muro, Yukako Kato, Atsushi Higashiya, Akira Sekiyama, Shigemasa Suga, Makina Yabashi, Kenji Tamasaku, Tetsuya Ishikawa, Kensei Terashima, Hiromi Kobori, A. Sugimura, N. Umeyama, Hirohiko Sato, Y. Hara, N. Miyagawa, S. I. Ikeda

18368
Room Temperature Ferromagnetic Behavior in the Hollandite-type Titanium Oxide
Journal of Applied Physics, **107** (2010) 073910
Yuji Muraoka, Kengo Noami, Takanori Wakita, Masaaki Hirai, Yukako Kato, Takayuki Muro, Yusuke Tamenori, Takayoshi Yokoya

18369
Bulk and Surface Physical Properties of a CrO_2 Thin Film Prepared from a Cr_8O_{21} Precursor
Journal of Applied Physics, **108** (2010) 043916
Yuji Muraoka, Keisuke Iwai, Takanori Wakita, Masaaki Hirai, Takayoshi Yokoya, Yukako Kato, Takayuki Muro, Yusuke Tamenori

18482
Electronic Structure of Pristine and K-doped Solid Picene: Nonrigid Band Change and Its Implication for Electron-Intramolecular-Vibration Interaction
Physical Review B, **82** (2010) 195114
Hiroyuki Okazaki, Takanori Wakita, Takayuki Muro, Yumiko Kaji, X. Lee, Hiroki Mitamura, Naoko Kawasaki, Yoshihiro Kubozono, Yusuke Yamanari, Takashi Kambe, Takashi Kato, Masaaki Hirai, Yuji Muraoka, Takayoshi Yokoya

19057
Analysis on Photoemission Spectrum of Superconducting FeSe
Physica C, **470** (2010) S389-S390
Rikiya Yoshida, Takanori Wakita, Hiroyuki Okazaki, Yoshikazu Mizuguchi, Shunsuke Tsuda, Yoshihiko Takano, Hiroyuki Takeya, Kazuo Hirata, Yukako Kato, Takayuki Muro, Mario Okawa, Kyoko Ishizaka, Shik Shin, Hisatomo Harima, Masaaki Hirai, Yuji Muraoka, Takayoshi Yokoya

BL28B2

17032
Wide Angle X-ray Scattering Measurements of Supercritical Water using Synchrotron Radiation
Journal of Physics: Conference Series, **215** (2010) 012090
Masanori Inui, Yukio Kajihara, Yasushi Azumi, Kazuhiro Matsuda, Kozaburo Tamura

17241
Real-time and Direct Observation of Hydrogen Absorption Dynamics for Pd Nanoparticles
Materials Research Society Symposia Proceedings, **1262** (2010) W06-10
Daiju Matsumura, Yuka Okajima, Yasuo Nishihata, Junichiro Mizuki

17821
Investigation of the Formation Process of Photodeposited Rh

Nanoparticles on TiO_2 by In Situ Time-Resolved Energy-Dispersive XAFS Analysis
Langmuir, **26** (2010) 13907-13912
Junya Ohyama, Kentaro Teramura, Shin-ichi Okuoka, Seiji Yamazoe, Kazuo Kato, Tetsuya Shishido, Tsunehiro Tanaka

17833
Coronary Vascular Dysfunction Promoted by Oxidative-Nitrative Stress in SHRSP.Z-Lepr^{fa}/IzmDmcr Rats with Metabolic Syndrome
Clinical and Experimental Pharmacology and Physiology, **37** (2010) 1035-1043
Satomi Kagota, Kazuhito Fukushima, Keiji Umetani, Yukari Tada, Namie Nejime, Kazuki Nakamura, Hidezo Mori, Kazuro Sugimura, Masaru Kunitomo, Kazumasa Shinozuka

18241
Packing Structure of Chains and Rings in an Expanded Liquid $Se_{80}Te_{20}$ Mixture Near the Semiconductor to Metal Transition
Journal of Physics: Condensed Matter, **22** (2010) 455103
Kenji Maruyama, Hirohisa Endo, Hideoki Hoshino, Yukio Kajihara, Masaru Nakada, Satoshi Sato

18752
Transmission Imaging and Strain Mapping in the Vicinity of Internal Crack Tip Using Synchrotron White X-ray
Materials Science Forum, **638-642** (2010) 2476-2481
Jun-ichi Shibano, Kentarou Kajiwara, Koji Kiriyama, Takahisa Shobu, Kenji Suzuki, Suguru Nishimura, Setsuo Miura, Michiaki Kobayashi

BL35XU

15937
Effect of K Doping on Phonons in $Ba_{1-x}K_xFe_2As_2$
Journal of the Physical Society of Japan, **79** (2010) 014714
Chul-Ho Lee, Kunihiro Kihou, Kazumasa Horigane, Satoshi Tsutsui, Tatsuo Fukuda, Hiroshi Eisaki, Akira Iyo, Hirotaka Yamaguchi, Alfred Baron, Braden Markus, Kazuyoshi Yamada

16061
Experiment and Theory of $Pb(In_{1/2}Nb_{1/2})O_3$: Antiferroelectric, Ferroelectric, or Relaxor State Depending on Perovskite B-Site Randomness
Journal of the Physical Society of Japan, **79** (2010) 011012
Kenji Oowada, Yusuke Tomita

16112
Temperature Gradient Analyzers for Compact High-Resolution X-ray Spectrometers
Journal of Synchrotron Radiation, **17** (2010) 12-24
Daisuke Ishikawa, Alfred Baron

16410
Rare-earth Atom Motions in ROs_4Sb_{12} (R = La, Pr, Nd, Sm)
Journal of Physics: Conference Series, **200** (2010) 012213
Satoshi Tsutsui, Hiroshi Uchiyama, John Sutter, Alfred Baron, Hitoshi Sugawara, Junichi Yamaura, Zenji Hiroi, Akira Ochiai, Hideyuki Sato

16829
Elastic Inhomogeneity and Acoustic Phonons in Pd-, Pt-, and Zr-based Metallic Glasses
Physical Review B, **81** (2010) 172201
Tetsu Ichitsubo, Wataru Itaka, Ei-ichiro Matsubara, H. Kato, S. Biwa, Shinya Hosokawa, K. Matsuda, Junji Saida, Osami Haruyama, Y. Yokoyama, Hiroshi Uchiyama, Alfred Baron

17017
Effects of Anisotropic Charge on Transverse Optical Phonons in NiO: Inelastic X-ray Scattering Spectroscopy Study
Physical Review B, **81** (2010) 241103
Hiroshi Uchiyama, Satoshi Tsutsui, Alfred Baron

17636
Collective Dynamics of Hydrated β-lactogloblin by Inelastic X-ray Scattering
The Journal of Chemical Physics, **133** (2010) 134501
Koji Yoshida, Shinya Hosokawa, Alfred Baron, Toshio Yamaguchi

BL37XU

15751
Characterization of Manganese Oxide-Enriched Surface Layers of Fe-Mn Alloys
Materials Science Forum, **631-632** (2010) 501-506
Kozo Shinoda, Takamichi Yamamoto, Shigeru Suzuki, Tomoya Uruga, Hajime Tanida, Hidenori Toyokawa, Yasuko Terada, Masafumi Takagaki

16141
Synthesis and Site Structure of a Replica Platinum-Carbon Composite Formed Utilizing Ordered Mesopores of Aluminum-MCM-41 for Catalysis in Fuel Cells

The Journal of Physical Chemistry C, **114** (2010) 1260-1267
Kazuki Oka, Yoshiyuki Shibata, Takaomi Itoi, Yasuo Izumi

16373
μ-XAENS Evidence for the Reduction of Sb(V) to Sb(III) in Soil from Sb Mine Tailing
Environmental Science & Technology, **44** (2010) 1281-1287
Satoshi Mitsunobu, Yoshio Takahashi, Yasuko Terada

16804
New X-ray Microprobe System for Trace Heavy Element Analysis Using Ultraprecise X-ray Mirror Optics of Long Working Distance
Nuclear Instruments and Methods in Physics Research Section A, **616** (2010) 270-272
Yasuko Terada, Hirokatsu Yumoto, Akihisa Takeuchi, Yoshio Suzuki, Kazuto Yamauchi, Tomoya Uruga

16809
Epitaxial Lift-Off for Sample Preparation of X-ray Absorption Fine Structure
Review of Scientific Instruments, **81** (2010) 043903
Kotaro Higashi, Fumitaro Ishikawa, Katsumi Handa, Shuichi Emura, Masahiko Kondow

16864
Characterization of Cadmium Accumulation in Willow as a Woody Metal Accumulator Using Synchrotron Radiation-Based X-ray Microanalyses
Plant and Cell Physiology, **51** (2010) 848-853
Emiko Harada, Akiko Hokura, Saori Takada, Kei'ichi Baba, Yasuko Terada, Izumi Nakai, Kazufumi Yazaki

16884
Depth Distribution Analysis of Cl^- in Aqueous Ionic Liquids by X-Ray Reflectivity Measurements
X線分析の進歩 (Advances in X-Ray Chemical Analysis, Japan), **41** (2010) 117-125
Yohko Yano, Tomoya Uruga, Hajime Tanida, Hidenori Toyokawa, Yasuko Terada, Hironari Yamada

16997
Antimony(V) Incorporation into Synthetic Ferrihydrite, Goethite, and Natural Iron Oxyhydroxides
Environmental Science & Technology, **44** (2010) 3712-3718
Satoshi Mitsunobu, Yoshio Takahashi, Yasuko Terada, Masahiro Sakata

17019
Simultaneous Measurement of X-ray Specular Reflection and Off-Specular Diffuse Scattering from Liquid Surfaces Using a Two-Dimensional Pixel Array Detector: The Liquid-Interface Reflectometer of BL37XU at SPring-8
Journal of Synchrotron Radiation, **17** (2010) 511-516
Yohko F. Yano, Tomoya Uruga, Hajime Tanida, Hidenori Toyokawa, Yasuko Terada, Hironari Yamada

17078
Mineralogy and Origin of Oxygen-Bearing Platinum-Iron Grains Based on an X-ray Absorption Spectroscopy Study
American Mineralogist, **95** (2010) 622-630
Kéiko H. Hattori, Yoshio Takahashi, Theirry Augé

17115
High-Energy X-Ray Microprobe System with Submicron Resolution for X-Ray Fluorescence Analysis of Uranium in Biological Specimens
X-Ray Optics and Instrumentation, **2010** (2010) 317909
Yasuko Terada, Shino Homma-Takeda, Akihisa Takeuchi, Yoshio Suzuki

17137
Variations in the Redox State of As and Fe Measured by X-ray Absorption Spectroscopy in Aquifers of Bangladesh and Their Effect on As Adsorption
Applied Geochemistry, **25** (2010) 34-47
Takaaki Itai, Yoshio Takahashi, Seddique Ashraf, Teruyuki Maruoka, Muneki Mitamura

17155
Contactless Measurements of Charge Migration within Single Molecules
Applied Physics Letters, **96** (2010) 233101
Kiyonobu Nagaya, Hiroshi Iwayama, Akinori Sugishima, Yoshinori Ohmasa, Makoto Yao

17357
Speciation of Tungsten in Natural Ferromanganese Oxides Using Wavelength Dispersive XAFS
Chemistry Letters, **39** (2010) 870-871
Teruhiko Kashiwabara, Yoshio Takahashi, Tomoya Uruga, Hajime Tanida, Yasuko Terada, Akihiro Niwa, Masaharu Nomura

17794
Ionic Multilayers at the Free Surface of an Ionic Liquid, Trioctylmethylammonium Bis(nonafluorobutanesulfonyl)

amide, Probed by X-ray Reflectivity Measurements
The Journal of Chemical Physics, **132** (2010) 164705
Naoya Nishi, Yukinori Yasui, Tomoya Uruga, Hajime Tanida, Tasuku Yamada, Hideki Matsuoka, Shun-ichi Nakayama, Takashi Kakiuchi

17848
Visible Drug Delivery System by Supramolecular Nanocarriers Directing to Single-Platformed Diagnosis and Therapy of Pancreatic Tumor Model
Cancer Research, **70** (2010) 7031-7041
Sachiko Kaida, Horacio Cabral, Michiaki Kumagai, Akihiro Kishimura, Yasuko Terada, Masaki Sekino, Ichio Aoki, Nobuhiro Nishiyama, Toru Tani, Kazunori Kataoka

17853
Nondestructive Depth-Resolved Chemical State Analysis of (La,Sr)MnO_3 Film under High Temperature
Surface and Interface Analysis, **42** (2010) 1650-1654
Kozo Shinoda, Shigeru Suzuki, Keiji Yashiro, Junichiro Mizusaki, Tomoya Uruga, Hajime Tanida, Hidenori Toyokawa, Yasuko Terada, Masafumi Takagaki

18035
Structural Change by Annealing Process at Σ9 Grain Boundaries in Multicrystalline Silicon Substrate for Solar Cells
Electrochemical and Solid-State Letters, **13** (2010) B79-B82
Tomihisa Tachibana, Juniti Masuda, Atsushi Ogura, Yoshio Ohshita, Koji Arafune

18149
Data Analysis of X-ray Fluorescence Holography by Subtracting Normal Component from Inverse Hologram
Japanese Journal of Applied Physics, **49** (2010) 116601
Naohisa Happo, Kouichi Hayashi, Shinya Hosokawa

19040
Soil Column Experiments for Iodate and Iodide using K-edge XANES and HPLC-ICP-MS
Journal of Geochemical Exploration, **107** (2010) 117-123
Yoko S. Shimamoto, Takaaki Itai, Yoshio Takahashi

BL38B1

15971
Crystal Structure of Peroxiredoxin from *Aeropyrum pernix* K1 Complexed with its Substrate, Hydrogen Peroxide
The Journal of Biochemistry, **147** (2010) 109-115
Tsutomu Nakamura, Yuuji Kado, Takafumi Yamaguti, Hiroyoshi Matsumura, Kazuhiko Ishikawa, Tsuyoshi Inoue

15987
Catalytic Mechanism of Bleomycin *N*-acetyltransferase Proposed on the Basis of Its Crystal Structure
The Journal of Biological Chemistry, **285** (2010) 1446-1456
Kousuke Oda, Yasuyuki Matoba, Masafumi Noda, Takanori Kumagai, Masanori Sugiyama

16111
Crystal Transition between Hydrate and Anhydrous β-chitin Monitored by Synchrotron X-ray Fiber Diffraction
Carbohydrate Polymers, **79** (2010) 882-889
Kayoko Kobayashi, Satoshi Kimura, Eiji Togawa, Masahisa Wada

16307
Structural Insights into Vinyl Reduction Regiospecificity of Phycocyanobilin:Ferredoxin Oxidoreductase (PcyA)
The Journal of Biological Chemistry, **285** (2010) 1000-1007
Yoshinori Hagiwara, Masakazu Sugishima, Htoi Khawn, Hideki Kinoshita, Katsuhiko Inomata, Lixia Shang, J. Clark Lagarias, Yasuhiro Takahashi, Keiichi Fukuyama

16309
Crystal Structure of the Halotolerant γ-glutamyltranspeptidase from *Bacillus subtilis* in Complex with Glutamate Reveals a Unique Architecture of the Solvent-Exposed Catalytic Pocket
The FEBS Journal, **277** (2010) 1000-1009
Kei Wada, Machiko Irie, Hideyuki Suzuki, Keiichi Fukuyama

16374
Crystal Structure of Plant Ferritin Reveals a Novel Metal Binding Site That Functions as a Transit Site for Metal Transfer in Ferritin
The Journal of Biological Chemistry, **285** (2010) 4049-4059
Taro Masuda, Fumiyuki Goto, Toshihiro Yoshihara, Bunzo Mikami

16564
Crystallization and Preliminary X-ray Studies of Ferredoxin-$NADP^+$ Oxidoreductase Encoded by *Bacillus subtilis yumC*
Acta Crystallographica Section F, **66** (2010) 301-303
Hirofumi Komori, Daisuke Seo, Takeshi Sakurai, Yoshiki Higuchi

16703
Structural Studies of the Peroxisomal Matrix Protein Import Factor, Pex14p

Doctor Thesis (Kyoto University), (2010)
Jian-Rong Su

16713
Structure of the Cytoplasmic Domain of FlhA and Implication for Flagellar Type III Protein Export
Molecular Microbiology, **76** (2010) 260-268
Yumiko Saijo-Hamano, Katsumi Imada, Tohru Minamino, May Kihara, Masafumi Shimada, Akio Kitao, Keiichi Namba

16755
An Approach to DNA Crystallization Using the Thermal Reversible Process of DNA Duplexes
Crystal Growth & Design, **10** (2010) 1090-1095
Toshiyuki Chatake, Gen Sazaki, Tatsuhiko Kikkou, Satoru Fujiwara, Takuya Ishikawa, Osamu Matsumoto, Yukio Morimoto

16771
Structural and Dynamic Features of the MutT Protein in the Recognition of Nucleotides with the Mutagenic 8-oxoguanine Base
The Journal of Biological Chemistry, **285** (2010) 444-452
Teruya Nakamura, Sachiko Meshitsuka, Seiju Kitagawa, Nanase Abe, Junichi Yamada, Tetsuya Ishino, Hiroaki Nakano, Teruhisa Tsuzuki, Takefumi Doi, Yuji Kobayashi, Satoshi Fujii, Mutsuo Sekiguchi, Yuriko Yamagata

16824
Catalytic Reaction Mechanism of *Pseudomonas stutzeri* L-rhamnose Isomerase Deduced from X-ray Structures
The FEBS Journal, **277** (2010) 1045-1057
Shigehiro Kamitori, Hiromi Yoshida, Masatsugu Yamaji, Tomohiko Ishii, Ken Izumori

16903
Self-Assembled $M_{24}L_{48}$ Polyhedra and Their Sharp Structural Switch upon Subtle Ligand Variation
Science, **328** (2010) 1144-1147
Qing-Fu Sun, Junji Iwasa, Daichi Ogawa, Yoshitaka Ishido, Sota Sato, Tomoji Ozeki, Yoshihisa Sei, Kentaro Yamaguchi, Makoto Fujita

17004
Mechanism of Accumulation and Incorporation of Organometallic Pd Complexes into the Protein Nanocage of apo-Ferritin
Inorganic Chemistry, **49** (2010) 6967-6973
Satoshi Abe, Tatsuo Hikage, Yoshihito Watanabe, Susumu Kitagawa, Takafumi Ueno

17005
Modification of Porous Protein Crystals in Development of Bio-hybrid Materials
Bioconjugate Chemistry, **21** (2010) 264-269
Tomomi Koshiyama, Naomi Kawaba, Tatsuo Hikage, Masanobu Shirai, Yuki Miura, Cheng-Yuan Huang, Koichiro Tanaka, Yoshihito Watanabe, Takafumi Ueno

17545
Crystal Structures of the Substrate-Bound Forms of Red Chlorophyll Catabolite Reductase: Implications for Site-Specific and Stereospecific Reaction
Journal of Molecular Biology, **402** (2010) 879-891
Masakazu Sugishima, Yukihiro Okamoto, Masato Noguchi, Takayuki Kohchi, Hitoshi Tamiaki, Keiichi Fukuyama

17689
Schefflerins A-G, New Triterpene Glucosides from the Leaves of *Schefflera arboricola*
Chemical and Pharmaceutical Bulletin, **58** (2010) 1343-1348
Zhimin Zhao, Katsuyoshi Matsunami, Hideaki Otsuka, Takakazu Shinzato, Yoshio Takeda, Masatoshi Kawahata, Kentaro Yamaguchi

17757
Crystal Structures of Phosphoketolase: *Thiamine Diphosphate-Dependent Dehydration Mechanism*
The Journal of Biological Chemistry, **285** (2010) 34279-34287
Ryuichiro Suzuki, Takane Katayama, Byung-Jun Kim, Takayoshi Wakagi, Hirofumi Shoun, Hisashi Ashida, Kenji Yamamoto, Shinya Fushinobu

17813
Assembly Modulation by Adjusting Counter Charges of Heterobimetallic Supramolecular Polymers Composed of Tris(spiroborate) Twin Bowls
Journal of the American Chemical Society, **132** (2010) 15556-15558
Hiroshi Danjo, Kadzuya Hirata, Masanori Noda, Susumu Uchiyama, Kiichi Fukui, Masatoshi Kawahata, Isao Azumaya, Kentaro Yamaguchi, Toshifumi Miyazawa

17863
Synchrotron X-ray Fiber Diffraction Study on the Thermal Expansion Behavior of Cellulose Crystals in Tension Wood of Japanese Poplar in the Low-Temperature Region
Holzforschung, **64** (2010) 167-171
Hitomi Hidaka, Ung-Jin Kim, Masahisa Wada

17864
Crystal Analysis and High-Resolution Imaging of Microfibrillar α-chitin from *Phaeocystis*
Journal of Structural Biology, **171** (2010) 111-116
Yu Ogawa, Satoshi Kimura, Masahisa Wada, Shigenori Kuga

17884
One Residue Substitution in PcyA Leads to Unexpected Changes in Tetrapyrrole Substrate Binding
Biochemical and Biophysical Research Communications, **402** (2010) 373-377
Kei Wada, Yoshinori Hagiwara, Yuko Yutani, Keiichi Fukuyama

17951
Construction of Robust Bio-nanotubes using the Controlled Self-Assembly of Component Proteins of Bacteriophage T4
Small, **6** (2010) 1873-1879
Norihiko Yokoi, Hiroshi Inaba, Makoto Terauchi, Adam Z. Stieg, Nusrat J. M. Sanghamitra, Tomomi Koshiyama, Katsuhide Yutani, Shuji Kanamaru, Fumio Arisaka, Tatsuo Hikage, Atsuo Suzuki, Takashi Yamane, James K. Gimzewski, Yoshihito Watanabe, Susumu Kitagawa, Takafumi Ueno

18014
Crystal Structure Analysis of *Bacillus subtilis* Ferredoxin-$NADP^+$ Oxidoreductase and the Structural Basis for Its Substrate Selectivity
Protein Science, **19** (2010) 2279-2290
Hirofumi Komori, Daisuke Seo, Takeshi Sakurai, Yoshiki Higuchi

18056
Purification, Crystallization and Preliminary X-ray Crystallographic Analysis of the Human Heat-Shock Protein 40 Hdj1 and its C-terminal Peptide-Binding Domain
Acta Crystallographica Section F, **66** (2010) 1591-1595
Hironori Suzuki, Shuji Noguchi, Hiroshi Arakawa, Tadaaki Tokida, Mariko Hashimoto, Yoshinori Satow

18187
The Universal Mechanism for Iron Translocation to the Ferroxidase Site in Ferritin, which is Mediated by the Well Conserved Transit Site
Biochemical and Biophysical Research Communications, **400** (2010) 94-99
Taro Masuda, Fumiyuki Goto, Toshihiro Yoshihara, Bunzo Mikami

18221
Structure and Reaction Mechanism of Human Nicotinamide Phosphoribosyltransferase
The Journal of Biochemistry, **147** (2010) 95-107
Ryo Takahashi, Shota Nakamura, Takashi Nakazawa, Katsuhiko Minoura, Takuya Yoshida, Yoshinori Nishi, Yuji Kobayashi, Tadayasu Ohkubo

18222
Characterization of HIV-1 Resistance to a Fusion Inhibitor, N36, Derived from the gp41 Amino-tserminal Heptad Repeat
Antiviral Research, **87** (2010) 179-186
Kazuki Izumi, Shota Nakamura, Hiroaki Nakano, Kazuya Shimura, Yasuko Sakagami, Shinya Oishi, Susumu Uchiyama, Tadayasu Ohkubo, Yuji Kobayashi, Nobutaka Fujii, Masao Matsuoka, Eiichi Kodama

18223
Cloning, Expression, Crystallization and Preliminary X-ray Crystallographic Analysis of a Human Condensin SMC2 Hinge Domain with Short Coiled Coils
Acta Crystallographica Section F, **66** (2010) 1067-1070
Kazuki Kawahara, Shota Nakamura, Yasuhiro Katsu, Daisuke Motooka, Yuki Hosokawa, Yukiko Kojima, Keiko Matsukawa, Hiroto Takinowaki, Susumu Uchiyama, Yuji Kobayashi, Kiichi Fukui, Tadayasu Ohkubo

18363
Expression, Crystallization and Preliminary Crystallographic Analysis of RNA-binding Protein Hfq (YmaH) from *Bacillus subtilis* in Complex with an RNA Aptamer
Acta Crystallographica Section F, **5** (2010) 563-566
Seiki Baba, Tatsuhiko Someya, Gota Kawai, Kouji Nakamura, Takashi Kumasaka

18364
Crystal Structures of Glycinamide Ribonucleotide Synthetase, PurD, from Thermophilic Eubacteria
The Journal of Biochemistry, **4** (2010) 429-438
Gen-ichi Sampei, Seiki Baba, Mayumi Kanagawa, Hisaaki Yanai, Takeshi Ishii, Hiroya Kawai, Yoko Fukai, Akio Ebihara, Noriko Nakagawa, Gota Kawai

18816
Cytochrome *c* Polymerization by Successive Domain Swapping at the C-Terminal Helix
Proceedings of the National Academy of Sciences of the United States of America, **107** (2010) 12854-12859

Shun Hirota, Yoko Hattori, Satoshi Nagao, Midori Taketa, Hirofumi Komori, Hironari Kamikubo, Zhonghua Wang, Isao Takahasi, Shigeru Negi, Yukio Sugiura, Mikio Kataoka, Yoshiki Higuchi

18868
Crystal Structure of Exotype Alginate Lyase Atu3025 from *Agrobacterium tumefaciens*
The Journal of Biological Chemistry, **285** (2010) 24519-24528
Akihito Ochiai, Masayuki Yamasaki, Bunzo Mikami, Wataru Hashimoto, Kousaku Murata

18869
Molecular Identification of Unsaturated Uronate Reductase Prerequisite for Alginate Metabolism in Sphingomonas sp. A1
Biochimica et Biophysica Acta - Proteins and Proteomics, **1804** (2010) 1925-1936
Ryuuichi Takase, Akihito Ochiai, Bunzo Mikami, Wataru Hashimoto, Kousaku Murata

18870
Mutational Studies of the Peptidoglycan Hydrolase FlgJ of *Sphingomonas* sp. Strain A1
Journal of Basic Microbiology, **50** (2010) 311-317
Yukie Maruyama, Akihito Ochiai, Takafumi Itoh, Bunzo Mikami, Wataru Hashimoto, Kousaku Murata

18899
Crystallization and Preliminary X-ray Analysis of Dimeric and Trimeric Cytochromes *c* from Horse Heart
Acta Crystallographica Section F, **66** (2010) 1477-1479
Midori Taketa, Hirofumi Komori, Yoko Hattori, Satoshi Nagao, Shun Hirota, Yoshiki Higuchi

BL39XU

16626
Additivity of Magnetic Contributions to the X-ray Magnetic Circular Dichroism Spectrum
Physical Review B, **81** (2010) 100404(R)
Roberto Boada, Cristina Piquer, Maria Laguna-Marco, Jesus Chaboy

17320
Chemical Effects of $CeL_{\gamma 4}$ Emission Spectra for Ce Compounds
Analytical Sciences, **26** (2010) 885-889
Hisashi Hayashi, Yuki Takehara, Naomi Kawamura, Masaichiro Mizumaki

17400
X-ray Magnetic Circular Dichroism Measurements using an X-ray Phase Retarder on the BM25 A-SpLine Beamline at the ESRF
Journal of Synchrotron Radiation, **17** (2010) 308-313
Roberto Boada, Maria Laguna-Marco, Jon Ander Gallastegui, German R. Castro, Jesus Chaboy

17401
Evidence of Intrinsic Magnetism in Capped ZnO Nanoparticles
Physical Review B, **82** (2010) 064411
Jesus Chaboy, Roberto Boada, Cristina Piquer, Maria Laguna-Marco, Mar Garcia-Hernandez, N. Carmona, M. L. Ruíz-Gonzáles, J. González-Calbet, J. F. Fernández, Miguel Angel Garcia

17438
Decoupling of the Magnetic Sublattices at the Compensation Point in *R*-Fe Compounds
Physical Review B, **82** (2010) 052407
Roberto Boada, Cristina Piquer, Maria Laguna-Marco, Jesus Chaboy

17463
Vector Magnetization Processes of Individual Magnetic Layers in TM/Ru/TM (TM = Co or Fe) Trilayers with Antiferromagnetic Interlayer Exchange Coupling by Resonant X-ray Magnetic Reflectivity
Journal of the Physical Society of Japan, **79** (2010) 094710
Ryuichirou Yamagishi, Takashi Koike, Kenji Kodama, Nobuyoshi Hosoito

17786
Polarized Total-Reflection X-ray Absorption Fine Structure of Zinc(II) Porphyrin at the Heptane-Water Interface
The Journal of Physical Chemistry C, **114** (2010) 18583-18587
Hirohisa Nagatani, Hajime Tanida, Makoto Harada, Maki Asada, Takamasa Sagara

17814
Photoassisted Amorphization of the Phase-Change Memory Alloy $Ge_2Sb_2Te_5$
Physical Review B, **82** (2010) 041203
Paul Fons, Hitoshi Osawa, Alexander Kolobov, Toshio Fukaya, Motohiro Suzuki, Tomoya Uruga, Naomi Kawamura, Hajime Tanida, Junji Tominaga

17890
Characterization of the ZnO-ZnS Interface in THIOL-Capped

ZnO Nanoparticles Exhibiting Anomalous Magnetic Properties
The Journal of Physical Chemistry C, **114** (2010) 19629-19634
Clara Guglieri, Jesus Chaboy

18226
Magnetocapacitive Effects in the Néel *N*-type Ferrimagnet $SmMnO_3$
Physical Review B, **82** (2010) 212403
Jong-Suck Jung, Ayato Iyama, Hiroyuki Nakamura, Masaichiro Mizumaki, Naomi Kawamura, Yusuke Wakabayashi, Tsuyoshi Kimura

BL40B2

16109
Conformational, Dimensional, and Hydrodynamic Properties of Amylose Tris(*n*-butylcarbamate) in Tetrahydrofuran, Methanol, and Their Mixtures
Macromolecules, **43** (2010) 1061-1068
Ken Terao, Maiko Murashima, Yuichi Sano, Shota Arakawa, Shinichi Kitamura, Takashi Norisuye

16287
Redox-Dependent Domain Rearrangement of Protein Disulfide Isomerase Coupled with Exposure of Its Substrate-Binding Hydrophobic Surface
Journal of Molecular Biology, **396** (2010) 361-374
Serve Olivier, Yukiko Kamiya, Aya Maeno, Michiko Nakano, Chiho Murakami, Hiroaki Sasakawa, Yoshiki Yamaguchi, Takushi Harada, Eiji Kurimoto, Maho Yagi-Utsumi, Takeshi Iguchi, Kenji Inaba, Jun Kikuchi, Osamu Asami, Tsutomu Kajino, Toshihiko Oka, Masayoshi Nakasako, Koichi Kato

16603
Novel Preparation of Intercellular Lipid Models of the Stratum Corneum Containing Stereoactive Ceramide
Chemical and Pharmaceutical Bulletin, **58** (2010) 312-317
Hiroshi Watanabe, Yasuko Obata, Yoshinori Onuki, Kenya Ishida, Kozo Takayama

16649
Molecular Aggregation Structures of Polyimide Films at Very High Pressure Analyzed by Synchrotron Wide-Angle X-ray Diffraction
Macromolecules, **43** (2010) 2115-2117
Kazuhiro Takizawa, Junji Wakita, Masaki Kakiage, Hiroyasu Masunaga, Shinji Ando

16771
Structural and Dynamic Features of the MutT Protein in the Recognition of Nucleotides with the Mutagenic 8-oxoguanine Base
The Journal of Biological Chemistry, **285** (2010) 444-452
Teruya Nakamura, Sachiko Meshitsuka, Seiju Kitagawa, Nanase Abe, Junichi Yamada, Tetsuya Ishino, Hiroaki Nakano, Teruhisa Tsuzuki, Takefumi Doi, Yuji Kobayashi, Satoshi Fujii, Mutsuo Sekiguchi, Yuriko Yamagata

16901
Structural Analysis of Lipocalin-Type Prostaglandin D Synthase Complexed with Biliverdin by Small-Angle X-ray Scattering and Multi-Dimensional NMR
Journal of Structural Biology, **169** (2010) 209-218
Yuya Miyamoto, Shigenori Nishimura, Katsuaki Inoue, Shigeru Shimamoto, Takuya Yoshida, Ayano Fukuhara, Mao Yamada, Yoshihiro Urade, Naoto Yagi, Tadayasu Ohkubo, Takashi Inui

16935
Novel Method to Observe Subtle Structural Modulation of Stratum Corneum on Applying Chemical Agents
Chemistry and Physics of Lipids, **163** (2010) 381-389
Ichiro Hatta, Hiromitsu Nakazawa, Yasuko Obata, Noboru Ohta, Katsuaki Inoue, Naoto Yagi

16949
Adaptation of a Hyperthermophilic Group II Chaperonin to Relatively Moderate Temperatures
Protein Engineering Design and Selection, **23** (2010) 393-402
Taro Kanzaki, Shuzo Ushioku, Ayumi Nakagawa, Toshihiko Oka, Kazunobu Takahashi, Takashi Nakamura, Kunihiro Kuwajima, Akihiko Yamagishi, Masafumi Yohda

17085
Cation-specific Transition from Vesicle to Lamella for an Aromatic Diamine Lipid in Aqueous Solutions
Chemistry Letters, **39** (2010) 686-687
Tomoki Nishimura, Hiroyasu Masunaga, Hiroki Ogawa, Isamu Akiba, Kazuo Sakurai

17109
Solution Properties of Amylose Tris(3, 5-dimethylphenylcarbamate) and Amylose Tris(phenylcarbamate): Side Group and Solvent Dependent Chain Stiffness in Methyl Acetate, 2-Butanone, and 4-Methyl-2-pentanone
Macromolecules, **43** (2010) 5779-5784
Maiko Tsuda, Ken Terao, Yasuko Nakamura, Yusuke Kita,

Shinichi Kitamura, Takahiro Sato

17132
Encapsulation of a Hydrophobic Drug into a Polymer-Micelle Core Explored with Synchrotron SAXS
Langmuir, **26** (2010) 7544-7551
Isamu Akiba, Kazuo Sakurai, Satoshi Hashida, Naotaka Terada, Hiroyasu Masunaga, Hiroki Ogawa, Kazuki Ito, Naoto Yagi

17140
Elongational Crystallization of Isotactic Polypropylene Forms Nano-oriented Crystals with Ultra-high Performance
Polymer Journal, **42** (2010) 464-473
Kiyoka Okada, Junichiro Washiyama, Kaori Watanabe, Sono Sasaki, Hiroyasu Masunaga, Masamichi Hikosaka

17166
Intelligent Build-Up of Complementarily Reactive Diblock Copolymers via Dynamic Covalent Exchange toward Symmetrical and Miktoarm Star-like Nanogels
Macromolecules, **43** (2010) 1785-1791
Yoshifumi Amamoto, Moriya Kikuchi, Hiroyasu Masunaga, Sono Sasaki, Hideyuki Otsuka, Atsushi Takahara

17167
Room-temperature Nanoimprint Lithography for Crystalline Poly(fluoroalkyl acrylate) Thin Films
Soft Matter, **6** (2010) 870-875
Koji Honda, Masamichi Morita, Hiroyasu Masunaga, Sono Sasaki, Masaki Takata, Atsushi Takahara

17266
Solution Properties of Amylose Tris(*n*-butylcarbamate). Helical and Global Conformation in Alcohols
Polymer, **51** (2010) 4243-4248
Yuichi Sano, Ken Terao, Shota Arakawa, Masahiro Ohtoh, Shinichi Kitamura, Takashi Norisuye

17444
Characteristic Phase Behavior of Polybutadiene-*block*-poly(ε-caploractone)/polybutadiene Blend after Melting Crystalline-amorphous Alternating Lamellar Structure
Polymer, **51** (2010) 4160-4168
Hideaki Takagi, Katsuhiro Yamamoto, Shigeru Okamoto, Shinichi Sakurai

17687
In situ SAXS Observation on Metal–Salt-Derived Alumina Sol–Gel System Accompanied by Phase Separation
Journal of Colloid and Interface Science, **352** (2010) 303-308
Yasuaki Tokudome, Kazuki Nakanishi, Kazuyoshi Kanamori, Teiichi Hanada

17775
Role of Boric Acid for a Poly (Vinyl Alcohol) Film as a Cross-Linking Agent: Melting Behaviors of the Films with Boric Acid
Polymer, **51** (2010) 5539-5549
Tsukasa Miyazaki, Yuuki Takeda, Sachiko Akane, Takahiko Ito, Akie Hoshiko, Keiko En

17797
Stereo-Complex Crystallization of Poly(lactic acid)s in Block-Copolymer Phase Separation
ACS Applied Materials & Interfaces, **2** (2010) 2707-2710
Hiroki Uehara, Yusuke Karaki, Shizuka Wada, Takeshi Yamanobe

17858
Arm-Replaceable Star-like Nanogels: Arm Detachment and Arm Exchange Reactions by Dynamic Covalent Exchanges of Alkoxyamine Units
Polymer Journal, **42** (2010) 860-867
Atsushi Takahara, Yoshifumi Amamoto, Moriya Kikuchi, Hideyuki Otsuka

17859
Solvent-Controlled Formation of Star-like Nanogels via Dynamic Covalent Exchange of PSt-b-PMMA Diblock Copolymers with Alkoxyamine Units in the Side Chain
Macromolecules, **43** (2010) 5470-5473
Atsushi Takahara, Yoshifumi Amamoto, Moriya Kikuchi, Hideyuki Otsuka

17865
Different Effects of *l*- and *d*-menthol on the Microstructure of Ceramide 5/cholesterol/palmitic Acid Bilayers
International Journal of Pharmaceutics, **402** (2010) 146-152
Hiroshi Watanabe, Yasuko Obata, Yoshinori Onuki, Kenya Ishida, Kozo Takayama

17882
Microscopic Observation of Aging of Silica Particles in Unvulcanized Rubber
Macromolecules, **43** (2010) 9480-9487
Yuya Shinohara, Hiroyuki Kishimoto, Naoto Yagi, Yoshiyuki Amemiya

17903
Nano-Quasicrystal Formation in $Zr_{75}Cu_{20}Pt_5$ Glass Ribbons during Annealing Examined by in-situ SWAXS
Journal of Physics: Conference Series, **247** (2010) 012037
Hiroshi Okuda, Yusuke Kashitani, Ryo Arao, Shojiro Ochiai, Junji Saida, Sono Sasaki, Hiroyasu Masunaga

17998
Development of a Fiber Structure in Poly(vinylidene Fluoride) by a CO_2 Laser-Heated Drawing Process
Polymer Journal, **42** (2010) 657-662
Young Ah Kang, Kyoung Hou Kim, Soichiro Ikehata, Yutaka Ohkoshi, Masanobu Nagura, Mitsuharu Koide, Hiroshi Urakawa

18003
Two Distinct Regions in *Staphylococcus aureus* GatCAB Guarantee Accurate tRNA Recognition
Nucleic Acids Research, **38** (2010) 672-682
Akiyoshi Nakamura, Akiyoshi Sheppard, Junji Yamane, Min Yao, Dieter Söll, Isao Tanaka

18019
SCFT Simulation and SANS Study on Spatial Distribution of Solvents in Microphase Separation Induced by a Differentiating Non-Solvent in a Semi-Dilute Solution of an Ultra-High-Molecular-Weight Block Copolymer
Journal of Physics: Conference Series, **247** (2010) 012040
Koji Ando, Takahiko Yamanaka, Shigeru Okamoto, Naoki Sakamoto, Daisuke Yamaguchi, Satoshi Koizumi, Hirokazu Hasegawa, Naokiyo Koshikawa

18040
Morphology Transition of Raft-Model Membrane Induced by Osmotic Pressure: Formation of Double-Layered Vesicle Similar to an Endo- and/or Exocytosis
Journal of Physics: Conference Series, **247** (2010) 012018
Teruaki Onai, Mitsuhiro Hirai

18146
Formation Mechanism Studies of Phenylene-Bridged Periodic Mesoporous Organosilicas (PMOs)
Langmuir, **26** (2010) 9017-9022
Vivian Rebbin, Andre Rothkirch, Noboru Ohta, Sergio Funari

18189
Self-Assembly of Amphiphilic Block Copolymers Containing Poly(n-octadecyl acrylate) Block in Aqueous Solution
IOP Conference Series: Materials Science and Engineering, **14** (2010) 012009
Isamu Akiba, Kazuo Sakurai, Hiroyasu Masunaga, Yusuke Akino

18234
Microphase Separated Structures of Block Copolymer Thin Film with Non-Volatile Selective Solvent
IOP Conference Series: Materials Science and Engineering, **14** (2010) 012002
Katsuhiro Yamamoto, Naoya Umegaki, Taito Matsutani, Hideaki Takagi, Eri Ito, Shinichi Sakurai

18382
Chemical Coating of Large-Area Au Nanoparticle Two-Dimensional Arrays as Plasmon-Resonant Optics
Applied Physics Letters, **97** (2010) 221101
Katsuhiro Isozaki, Takao Ochiai, Tomoya Taguchi, Koh-ichi Nittoh, Kazushi Miki

18535
Self-Assembled Synthetic Viral Capsids from a 24-mer Viral Peptide Fragment
Angewandte Chemie, **122** (2010) 9856-9859
Kazunori Matsuura, Kenta Watanabe, Tsubasa Matsuzaki, Kazuo Sakurai, Nobuo Kimizuka

BL40XU

15920
Deformation Behavior of Banded Spherulite during Drawing Investigated by Simultaneous Microbeam SAXS-WAXS and POM Measurement
Polymer, **51** (2010) 222-231
Yoshinobu Nozue, Yuya Shinohara, Yasuo Ogawa, Tadashi Takamizawa, Takashi Sakurai, Tatsuya Kasahara, Noboru Yamaguchi, Naoto Yagi, Yoshiyuki Amemiya

16335
Simultaneous Measurements of Picosecond Lattice and Charge Dynamics in Co-Fe Cyanides
Applied Physics Express, **3** (2010) 016601
Yoshimitsu Fukuyama, Nobuhiro Yasuda, Hayato Kamioka, Jungeun Kim, Takayuki Shibata, Hitoshi Osawa, Takeshi Nakagawa, Haruno Murayama, Kenichi Kato, Yoshihito Tanaka, Shigeru Kimura, Takashi Ohshima, Hitoshi Tanaka, Masaki Takata, Yutaka Moritomo

16910
Evaluation of the Distribution and Orientation of Remineralized

Enamel Crystallites in Subsurface Lesions by X-Ray Diffraction
Caries Research, **44** (2010) 253-259
Tomoko Tanaka, Naoto Yagi, Hiroshi Kamasaka, Yoshinobu Terada, Noboru Ohta, Kenji To-o, Takashi Kometani, Takashi Kuriki, Tatsuhito Matuo

17113
Fast X-ray Recordings Reveal Dynamic Action of Contractile and Regulatory Proteins in Stretch-Activated Insect Flight Muscle
Biophysical Journal, **99** (2010) 184-192
Hiroyuki Iwamoto, Katsuaki Inoue, Naoto Yagi

17197
Small-Angle X-ray Diffraction Structural Analysis of Human Hairs of Different Shapes and Effect of Straight Perming
日本香粧品学会誌 (Journal of Japanese Cosmetic Science Society), **34** (2010) 102-107
Minori Kakizawa, Tomoyuki Kawasoe, Noboru Ohta, Katsuaki Inoue, Naoto Yagi, Ichiro Hatta

17265
Monitoring the Structural Behavior of Troponin and Myoplasmic Free Ca^{2+} Concentration during Twitch of Frog Skeletal Muscle
Biophysical Journal, **99** (2010) 193-200
Tatsuhito Matsuo, Hiroyuki Iwamoto, Naoto Yagi

17691
Indirectly Illuminated X-ray Area Detector for X-ray Photon Correlation Spectroscopy
Journal of Synchrotron Radiation, **17** (2010) 737-742
Yuya Shinohara, Ryo Imai, Hiroyuki Kishimoto, Naoto Yagi, Yoshiyuki Amemiya

17882
Microscopic Observation of Aging of Silica Particles in Unvulcanized Rubber
Macromolecules, **43** (2010) 9480-9487
Yuya Shinohara, Hiroyuki Kishimoto, Naoto Yagi, Yoshiyuki Amemiya

17944
A Microbeam Small-Angle X-ray Scattering Study on Enamel Crystallites in Subsurface Lesion
Journal of Physics: Conference Series, **247** (2010) 012024
Naoto Yagi, Noboru Ohta, Tatsuhito Matsuo, Tomoko Tanaka, Yoshinobu Terada, Hiroshi Kamasaka, Takashi Kometani

BL41XU

15089
Crystallization and Preliminary X-ray Crystallographic Analysis of *Thermus thermophilus* Transcription Elongation Complex Bound to Gfh1
Acta Crystallographica Section F, **66** (2010) 64-68
Shunsuke Tagami, Shun-ichi Sekine, Kumarevel Thirumananseri, Masaki Yamamoto, Shigeyuki Yokoyama

15228
Structural Basis for Translation Factor Recruitment to the Eukaryotic/Archaeal Ribosomes
The Journal of Biological Chemistry, **285** (2010) 4747-4756
Toshio Uchiumi, Takao Naganuma, Naoko Nomura, Min Yao, Masahiro Mochizuki, Isao Tanaka

15987
Catalytic Mechanism of Bleomycin *N*-acetyltransferase Proposed on the Basis of Its Crystal Structure
The Journal of Biological Chemistry, **285** (2010) 1446-1456
Kousuke Oda, Yasuyuki Matoba, Masafumi Noda, Takanori Kumagai, Masanori Sugiyama

15991
The Structure of the N-terminal Regulatory Domain of a Plant NADPH Oxidase and Its Functional Implications
The Journal of Biological Chemistry, **285** (2010) 1435-1445
Takashi Oda, Hiroshi Hashimoto, Naoyuki Kuwabara, Satoko Akashi, Kokoro Hayashi, Chojiro Kojima, Hann Ling Wong, Tsutomu Kawasaki, Ko Shimamoto, Mamoru Sato, Toshiyuki Shimizu

16307
Structural Insights into Vinyl Reduction Regiospecificity of Phycocyanobilin:Ferredoxin Oxidoreductase (PcyA)
The Journal of Biological Chemistry, **285** (2010) 1000-1007
Yoshinori Hagiwara, Masakazu Sugishima, Htoi Khawn, Hideki Kinoshita, Katsuhiko Inomata, Lixia Shang, J. Clark Lagarias, Yasuhiro Takahashi, Keiichi Fukuyama

16453
Structural Insight into the Membrane Insertion of Tail-Anchored Proteins by Get3
Genes to Cells, **5** (2010) 29-41
Atsushi Yamagata, Hisatoshi Mimura, Yusuke Sato, Masami Yamashita, Azusa Yoshikawa, Shuya Fukai

16454
Structural Basis for the Rho- and Phosphoinositide-Dependent Localization of the Exocyst Subunit Sec3
Nature Structural and Molecular Biology, **17** (2010) 180-186
Masami Yamashita, Kazuo Kurokawa, Yusuke Sato, Masami Yamashita, Hisatoshi Mimura, Azusa Yoshikawa, Ken Sato, Akihiko Nakano, Shuya Fukai

16703
Structural Studies of the Peroxisomal Matrix Protein Import Factor, Pex14p
Doctor Thesis (Kyoto University), (2010)
Jian-Rong Su

16713
Structure of the Cytoplasmic Domain of FlhA and Implication for Flagellar Type III Protein Export
Molecular Microbiology, **76** (2010) 260-268
Yumiko Saijo-Hamano, Katsumi Imada, Tohru Minamino, May Kihara, Masafumi Shimada, Akio Kitao, Keiichi Namba

16714
Structural Studies of Prefoldin, a Molecular Chaperone
Doctor Thesis (Kyoto University), (2010)
Hiroshi Kida

16771
Structural and Dynamic Features of the MutT Protein in the Recognition of Nucleotides with the Mutagenic 8-oxoguanine Base
The Journal of Biological Chemistry, **285** (2010) 444-452
Teruya Nakamura, Sachiko Meshitsuka, Seiju Kitagawa, Nanase Abe, Junichi Yamada, Tetsuya Ishino, Hiroaki Nakano, Teruhisa Tsuzuki, Takefumi Doi, Yuji Kobayashi, Satoshi Fujii, Mutsuo Sekiguchi, Yuriko Yamagata

16806
Dimeric Coiled-Coil Structure of *Saccharomyces cerevisiae* Atg16 and Its Functional Significance in Autophagy
The Journal of Biological Chemistry, **285** (2010) 1508-1515
Yuko Fujioka, Nobuo Noda, Hitoshi Nakatogawa, Yoshinori Ohsumi, Fuyuhiko Inagaki

16814
Detailed Assessment of X-ray Induced Structural Perturbation in a Crystalline State Protein
Journal of Structural Biology, **169** (2010) 135-144
Kazuki Takeda, Kouji Kusumoto, Yuu Hirano, Kunio Miki

16815
Crystal Structure of a Thermophilic GrpE Protein: Insight into Thermosensing Function for the DnaK Chaperone System
Journal of Molecular Biology, **396** (2010) 1000-1011
Akira Nakamura, Kouhei Takumi, Kunio Miki

16826
Reaction Mechanism and Molecular Basis for Selenium/Sulfur Discrimination for Selenocysteine Lyase
The Journal of Biological Chemistry, **285** (2010) 12133-12139
Rie Omi, Suguru Kurokawa, Hisaaki Mihara, Hideyuki Hayashi, Masaru Goto, Ikuko Miyahara, Tatsuo Kurihara, Ken Hirotsu, Nobuyoshi Esaki

16849
Structural Insight into the Regulatory Mechanisms of Interactions of the Flagellar Type III Chaperone FliT with Its Binding Partners
Proceedings of the National Academy of Sciences of the United States of America, **107** (2010) 8812-8817
Katsumi Imada, Tohru Minamino, Miki Kinoshita, Yukio Furukawa, Keiichi Namba

16942
Structural Basis of Instability of the Nucleosome Containing a Testis-Specific Histone Variant, Human H3T
Proceedings of the National Academy of Sciences of the United States of America, **107** (2010) 10454-10459
Hiroaki Tachiwana, Wataru Kagawa, Akihisa Osakabe, Koichiro Kawaguchi, Tatsuya Shiga, Toko Hayashi-Takanaka, Hiroshi Kimura, Hitoshi Kurumizaka

16977
An Allosteric Mechanism to Displace Nuclear Export Cargo from CRM1 and RanGTP by RanBP1
The EMBO Journal, **29** (2010) 2002-2013
Yoshiyuki Matsuura, Masako Koyama

17004
Mechanism of Accumulation and Incorporation of Organometallic Pd Complexes into the Protein Nanocage of apo-Ferritin
Inorganic Chemistry, **49** (2010) 6967-6973
Satoshi Abe, Tatsuo Hikage, Yoshihito Watanabe, Susumu Kitagawa, Takafumi Ueno

17455
Preliminary X-ray Crystallographic Study of the Receptor Binding Domain of the D/C Mosaic Neurotoxin from *Clostridium botulinum*

Acta Crystallographica Section F, **66** (2010) 608-610
Nipawan Nuemket, Yoshikazu Tanaka, Kentaro Tsukamoto, Takao Tsuji, Keiji Nakamura, Shunji Kozaki, Min Yao, Isao Tanaka

17466
High-Quality Crystals of Human Haematopoietic Prostaglandin D Synthase with Novel Inhibitors
Acta Crystallographica Section F, **66** (2010) 846-850
Sachiko Takahashi, Toshiharu Tsurumura, Kosuke Aritake, Naoki Furubayashi, Masaru Sato, Mari Yamanaka, Erika Hirota, Satoshi Sano, Tomoyuki Kobayashi, Tetsuo Tanaka, Koji Inaka, Hiroaki Tanaka, Yoshihiro Urade

17545
Crystal Structures of the Substrate-Bound Forms of Red Chlorophyll Catabolite Reductase: Implications for Site-Specific and Stereospecific Reaction
Journal of Molecular Biology, **402** (2010) 879-891
Masakazu Sugishima, Yukihiro Okamoto, Masato Noguchi, Takayuki Kohchi, Hitoshi Tamiaki, Keiichi Fukuyama

17852
Deleting Two C-terminal α-helices is Effective to Crystallize the Bacterial ABC Transporter *Escherichia coli* MsbA Complexed with AMP-PNP
Acta Crystallographica Section D, **66** (2010) 319-323
Kanako Terakado, Atsushi Kodan, Hiroaki Nakano, Yasuhisa Kimura, Kazumitsu Ueda, Toru Nakatsu, Hiroaki Kato

17868
Crystallization and Preliminary X-ray Crystallographic Study of GenX, a Lysyl-tRNA Synthetase Paralogue from *Escherichia coli*, in Complex with Translation Elongation Factor P
Acta Crystallographica Section F, **66** (2010) 1115-1118, Tomomi Sumida, Tatsuo Yanagisawa, Ryohei Ishii, Shigeyuki Yokoyama

17869
A Paralog of Lysyl-tRNA Synthetase Aminoacylates a Conserved Lysine Residue in Translation Elongation Factor P
Nature Structural and Molecular Biology, **17** (2010) 1136-1143
Tatsuo Yanagisawa, Tomomi Sumida, Ryohei Ishii, Chie Takemoto, Shigeyuki Yokoyama

17884
One Residue Substitution in PcyA Leads to Unexpected Changes in Tetrapyrrole Substrate Binding
Biochemical and Biophysical Research Communications, **402** (2010) 373-377
Kei Wada, Yoshinori Hagiwara, Yuko Yutani, Keiichi Fukuyama

18003
Two Distinct Regions in *Staphylococcus aureus* GatCAB Guarantee Accurate tRNA Recognition
Nucleic Acids Research, **38** (2010) 672-682
Akiyoshi Nakamura, Akiyoshi Sheppard, Junji Yamane, Min Yao, Dieter Söll, Isao Tanaka

18052
Two Enzymes Bound to One Transfer RNA Assume Alternative Conformations for Consecutive Reactions
Nature, **467** (2010) 612-616
Takuhiro Ito, Shigeyuki Yokoyama

18059
Towards Investigation of the Inhibitor-Recognition Mechanisms of Drug-Target Proteins by Neutron Crystallography
Acta Crystallographica Section D, **66** (2010) 1126-1130
Ryota Kuroki, Nobuo Okazaki, Motoyasu Adachi, Takashi Ohhara, Kazuo Kurihara, Taro Tamada

18086
Elucidation of Advanced Function of Elastase by Combined High-Resolution Neutron and X-ray Analysis
日本結晶学会誌 (Journal of the Crystallographic Society of Japan), **52** (2010) 133-138
Taro Tamada, Takayoshi Kinoshita, Toshiji Tada, Ryota Kuroki

18138
Crystal Structure of the Carnitine Transporter and Insights into the Antiport Mechanism
Nature Structural and Molecular Biology, **17** (2010) 492-496
Lin Tang, Lin Bai, Wenhua Wang, Tao Jiang

18265
Structure of a Fucose Transporter in an Outward-open Conformation
Nature, **467** (2010) 734-738
Shangyu Dang, Linfeng Sun, Yongjian Huang, Feiran Lu, Yufeng Liu, Haipeng Gong, Jiawei Wang, Nieng Yan

18266
Crystal Structure of the *Caenorhabditis elegans* Apoptosome Reveals an Octameric Assembly of CED-4
Cell, **141** (2010) 446-457
Shiqian Qi, Yuxuan Pang, Qi Hu, Qun Liu, Hua Li, Yuilan Zhou,

Tianxi He, Qionglin Liang, Yexing Liu, Xiaqiu Yuan, Guoan Luo, Huilin Li, Jiawei Wang, Nieng Yan, Yigong Shi

18268
Mechanism of Substrate Recognition and Transport by an Amino Acid Antiporter
Nature, **463** (2010) 828-832
Xiang Gao, Lijun Zhou, Xuyao Jiao, Feiran Lu, Chuangye Yan, Xin Zeng, Jiawei Wang, Yigong Shi

18364
Crystal Structures of Glycinamide Ribonucleotide Synthetase, PurD, from Thermophilic Eubacteria
The Journal of Biochemistry, **4** (2010) 429-438
Gen-ichi Sampei, Seiki Baba, Mayumi Kanagawa, Hisaaki Yanai, Takeshi Ishii, Hiroya Kawai, Yoko Fukai, Akio Ebihara, Noriko Nakagawa, Gota Kawai

18418
Crystallization of the Plant Hormone Receptors PYL9/RCAR1, PYL5/RCAR8 and PYR1/RCAR11 in the Presence of (+)-abscisic Acid
Acta Crystallographica Section F, **66** (2010) 456-459
Nobuyuki Shibata, Megumi Kagiyama, Masahiro Nakagawa, Yoshinori Hirano, Toshio Hakoshima

18509
Crystal Structure of *Legionella* DotD: Insights into the Relationship between Type IVB and Type II/III Secretion Systems
PLoS Pathogens, **6** (2010) e1001129
Noboru Nakano, Tomoko Kubori, Miki Kinoshita, Katsumi Imada, Hiroki Nagai

18702
Crystal structure of *Methanocaldococcus jannaschii* Trm4 Complexed with Sinefungin
Journal of Molecular Biology, **401** (2010) 323-333
Mitsuo Kuratani, Masashi Hirano, Sakurako Ito, Yuzuru Ito, Yasushi Hikida, Madoka Nishimoto, Shun-ichi Sekine, Yoshitaka Bessho, Takuhiro Ito, Grosjean Henri, Shigeyuki Yokoyama

18714
Crystal Structure of 3-Hexulose-6-Phosphate Synthase, a Member of the Orotidine 5'-Monophosphate Decarboxylase Suprafamily
Proteins: Structure, Function, and Bioinformatics, **78** (2010) 3488-3492
Izumi Orita, Akiko Kita, Hiroya Yurimoto, Nobuo Kato, Yasuyoshi Sakai, Kunio Miki

18715
Structure-based Catalytic Optimization of a Type III Rubisco from a Hyperthermophile
The Journal of Biological Chemistry, **285** (2010) 39339-39347
Yuichi Nishitani, Shosuke Yoshida, Masahiro Fujihashi, Kazuya Kitagawa, Takashi Doi, Haruyuki Atomi, Tadayuki Imanaka, Kunio Miki

18725
Solution of the Structure of the TNF-TNFR2 Complex
Science Signaling, **3** (2010) ra83
Yohei Mukai, Teruya Nakamura, Mai Yoshikawa, Yasuo Yoshioka, Shin-ichi Tsunoda, Shinsaku Nakagawa, Yuriko Yamagata, Yasuo Tsutsumi

18863
Structural Basis of Biological N_2O Generation by Bacterial Nitric Oxide Reductase
Science, **330** (2010) 1666-1670
Tomoya Hino, Yushi Matsumoto, Shingo Nagano, Hiroshi Sugimoto, Yoshihiro Fukumori, Takeshi Murata, So Iwata, Yoshitsugu Shiro

19010
Structural and Functional Studies on Ycf12 (Psb30) and PsbZ-deletion Mutants from a Thermophilic Cyanobacterium
Biochimica et Biophysica Acta – Bioenergetics, **1797** (2010) 278-284
Kenji Takasaka, Masako Iwai, Yasufumi Umena, Keisuke Kawakami, Yukari Ohmori, Masahiko Ikeuchi, Yuichiro Takahashi, Nobuo Kamiya, Jian-Ren Shen

BL43IR

17908
Infrared Studies of *f* Electron Systems under High Pressure Using Synchrotron Radiation
Journal of Physics: Conference Series, **215** (2010) 012051
Hidekazu Okamura, Masaharu Matsunami, Ryosuke Kitamura, Satoshi Ishida, A. Ochiai, Takao Nanba

18057
The Identification and the Analysis of Degraded State of Excavated Archaeological Textile Fibers Using Synchrotron FT-IR Micro-Spectroscopy
分析化学 (Bunsekikagaku), **59** (2010) 513-520
Masayoshi Okuyama, Masanori Sato, Masanori Akada, Taro Moriwaki

18604
Analysis of Composition Distribution in High Impact Polypropylene Particles Using Synchrotron Infrared Microspectroscopy Imaging
分析化学 (Bunseki Kagaku), **59** (2010) 531-535
Kiyokazu Katayama, Shohjiroh Tanase, Masakatsu Ohta, Kenkichi Tanaka, Takehito Konakazawa, Nobuhide Ishihara, Yuka Ikemoto, Toshikatsu Nishioka

19079
Infrared Absorption Spectra of δ-AlOOH and its Deuteride at High Pressure and its Implication to Pressure Response of the Hydrogen Bonds
Journal of Physics: Conference Series, **215** (2010) 012052
Hiroyuki Kagi, Daichi Ushijima, Asami Sano-Furukawa, Kazuki Komatsu, Riko Iizuka, Takaya Nagai, Satoshi Nakano

BL46XU

15096
In-situ Observation of Solidification Behavior during Welding
Materials Science Forum, **638-642** (2010) 3722-3726
Yu-ichi Komizo, Hidenori Terasaki

15923
Analysis of Critical Current Distribution of Bent Bi2223 Composite Tapes by Unifying Parameter Approach and its Application to the Description of Average Critical Current-Bending Strain Relation Near the Average Irreversible Strain
Superconductor Science and Technology, **23** (2010) 025006
Shojiro Ochiai, Hiroshi Okuda, Michinaka Sugano, Masaki Hojo, Kozo Osamura, T. Kuroda, K. Itoh, Hajime Kitaguchi, H. Kumakura, H. Wada

16796
Study of Charge Trap Sites in SiN Films by Hard X-ray Photoelectron Spectroscopy
Japanese Journal of Applied Physics, **49** (2010) 04DD11
Daisuke Kosemura, Munehisa Takei, Kohki Nagata, Hiroaki Akamatsu, Maki Hattori, Daisuke Katayama, Tatsuo Nishita, Yoshihiro Hirota, Masatake Machida, JinYoung Son, Tomoyuki Koganezawa, Ichiro Hirosawa, Atsushi Ogura

17462
Field-effect Transistor Characteristics and Microstructure of Regioregular Poly(3-hexylthiophene) on Alkylsilane Self-assembled Monolayers Prepared by Microcontact Printing
Organic Electronics, **11** (2010) 1323-1326
Takashi Kushida, Takashi Nagase, Hiroyoshi Naito

17829
The Influence of Initial Surface Conditions on Field Crystallization of Anodic Aluminum Oxide Films Determined by Synchrotron X-ray Diffraction
Surface and Interface Analysis, **42** (2010) 215-220
Masatoshi Sakairi, Tatsuya Kikuchi, Takanori Suda, Daisuke Nagasawa, Masugu Sato

17867
Extraordinary Hall Effect in $Ba_{1-x}Sr_xRuO_3$
Journal of Physics: Conference Series, **200** (2010) 012090
Yoshihiko Kobayashi, Masatoshi Iwata, Tetsuya Kaneko, Keisuke Sato, Kichizo Asai

17946
Extraordinary Hall Effect in $Ba_{1-x}Sr_xRuO_3$ Films
Physical Review B, **82** (2010) 174430
Yoshihiko Kobayashi, Masatoshi Iwata, Tetsuya Kaneko, Keisuke Sato, Kichizo Asai, Hiroyuki Ohsumi

18072
Development of Energy-Resolved X-ray Imaging Method with Silicon Pixel Detectors
KEK Proceedings, **2009** (2010) 28-35
Hidenori Toyokawa, Kentarou Kajiwara, Masugu Sato, Hajime Tanida, Tomoya Uruga

18076
Single Photon Counting Pixel Detectors for Synchrotron Radiation Experiments
Nuclear Instruments and Methods in Physics Research Section A, **623** (2010) 204-206
Hidenori Toyokawa, Christian Broennimann, Eric Eikenberry, Beat Henrich, Morihiro Kawase, Miroslav Kobas, Philipp Kraft, Masugu Sato, Bernd Schmitt, Masayo Suzuki, Hajime Tanida, Tomoya Uruga

18184
Effects of Titanium Carbide (TiC) and Anodizing Voltages on Discoloration
Resistance of Colored-Titanium Sheets
Corrosion Science, **52** (2010) 1889-1896
Michio Kaneko, Masao Kimura, Kiyonori Tokuno

18298
The First Step Status of Cadmium Telluride Pixel Detector

Development at SPring-8
KEK Proceedings, **2010** (2010) 220-225
Hidenori Toyokawa, Toko Hirono, Morihiro Kawase, Yukito Furukawa, Toru Ohata, Hirokazu Ikeda, Goro Sato, Shin Watanabe, Tadayuki Takahashi

19096
Study of HfO_2/Si/Strained-Ge/SiGe Using Angle Resolved X-ray Photoelectron Spectroscopy
ECS Transactions, **33** (2010) 467-472
Arata Komatsu, Kentarou Nasu, Yusuke Hoshi, Toru Kurebayashi, Kentarou Sawano, Maksym Myronov, Hiroshi Nohira, Yasuhiro Shiraki

BL47XU

14791
Submicrometer Tomographic Resolution Examined using a Micro-Fabricated Test Object
Micron, **41** (2010) 90-95
Ryuta Mizutani, Akihisa Takeuchi, R. Yoshiyuki Osamura, Susumu Takekoshi, Kentaro Uesugi, Yoshio Suzuki

14900
The Role of Trace Element Segregation in the Eutectic Modification of Hypoeutectic Al-Si Alloys
Journal of Alloys and Compounds, **489** (2010) 415-420
Kazuhiro Nogita, Hideyuki Yasuda, Masato Yoshiya, Stuart McDonald, Kentaro Uesugi, Akihisa Takeuchi, Yoshio Suzuki

15153
Three-dimensional Visualization and Analysis of Grain Deformation by Means of Synchrotron Radiation
Materials Science Forum, **638-642** (2010) 2523-2528
Masakazu Kobayashi, Hiroyuki Toda, Kentaro Uesugi

15603
The Role of Trace Elements Segregation in the Eutectic Modification of Hypoeutectic Al-Si Alloys
Journal of Alloys and Compounds, **489** (2010) 415-420
Kazuhiro Nogita, Hideyuki Yasuda, Masato Yoshiya, S. D. Macdonald, Kentaro Uesugi, Akihisa Takeuchi, Yoshio Suzuki

15605
High Temperature Characteristics of Unidirectionally Solidified Eutectic Ceramic Composites and Some Potential Applications
Materials Science Forum, **683-642** (2010) 997-1002
Yoshiharu Waku, Hideyuki Yasuda

16655
Electronic Structural Analysis of Transparent In_2O_3-ZnO Films by Hard X-ray Photoelectron Spectroscopy
Thin Solid Films, **518** (2010) 3008-3011
Tadao Shibuya, Masahiro Yoshinaka, Futoshi Utsuno, Koki Yano, Kazuyoshi Inoue, Yukio Shimane, Eiji Ikenaga, Shigenori Ueda, Jungjin Kim, Masaaki Kobata, Keisuke Kobayashi

16736
Microbeam X-ray Diffraction of Non-Banded Polymer Spherulites of It-Polystyrene and It-Poly(butene-1)
Polymer, **51** (2010) 1837-1844
Hiroshi Kajioka, Shigeru Yoshimoto, Ratan Gosh, Ken Taguchi, Shinpei Tanaka, Akihiko Toda

17154
3D Characterisation of Grain Deformation under Synchrotron Radiation
Materials Science Forum, **654-656** (2010) 2303-2306
Masakazu Kobayashi, Hiroyuki Toda, Kentaro Uesugi, Akihisa Takeuchi, Yoshio Suzuki

17158
Four-Dimensional Annihilation Behaviors of Micro Pores during Surface Cold Working
Materials Transactions, **51** (2010) 1288-1295
Hiroyuki Toda, Tomoyasu Yamaguchi, Mitsuru Nakazawa, Yoshimitsu Aoki, Kentaro Uesugi, Yoshio Suzuki, Masakazu Kobayashi

17173
Estimation of Presampling Modulation Transfer Function in Synchrotron Radiation Microtomography
Nuclear Instruments and Methods in Physics Research Section A, **621** (2010) 615-619
Ryuta Mizutani, Keisuke Taguchi, Akihisa Takeuchi, Kentaro Uesugi, Yoshio Suzuki

17477
Proposal of a Method to Analyze 3D Deformation/Fracture Characteristics inside Materials Based on a Stratified
Machine Vision and Applications, **21** (2010) 687-694
Mitsuru Nakazawa, Masakazu Kobayashi, Hiroyuki Toda, Yoshimitsu Aoki

17894
Complementarity between High-Energy Photoelectron and L-edge Spectroscopy for Probing the Electronic Structure of 5d

Transition Metal Catalysts
Physical Chemistry Chemical Physics, **12** (2010) 5694-5700
Toyli Anniyev, Hirohito Ogasawara, Mathias P. Ljungberg, Kjartan T. Wikfeldt, Janay B. MacNaughton, Lars-Åke Näslund, Uwe Bergmann, Shirlaine Koh, Peter Strasser, Lars Pettersson, Anders Nilsson

17940
A Nondestructive Analysis of the B Diffusion in Ta-CoFeB-MgO-CoFeB-Ta Magnetic Tunnel Junctions by Hard X-ray Photoemission
Applied Physics Letters, **96** (2010) 072105
Xeniya Kozina, Siham Ouardi, Benjamin Balke, Hryhoriy Stryhanyuk, Gerhard Fecher, Claudia Felser, Shoji Ikeda, Hideo Ohno, Eiji Ikenaga

17945
Electronic Transport Properties of Electron- and Hole-doped Semiconducting $C1_b$ Heusler Compounds: $NiTi_{1-x}M_xSn$ (*M*=Sc, V)
Physical Review B, **82** (2010) 085108
Siham Ouardi, Gerhard Fecher, Benjamin Balke, Xeniya Kozina, Hryhoriy Stryhanyuk, Claudia Felser, Stephan Lowitzer, Diemo Ködderitzsch, Hubert Ebert, Eiji Ikenaga

18269
Imaging of Hair Damage Structure Using X-ray Micro-tomography
日本化粧品技術者会誌 (Journal of the Society of Cosmetic Chemists of Japan), **44** (2010) 292-297
Kouji Takehara, Takafumi Inoue, Kentaro Uesugi, Akihisa Takeuchi, Yoshio Suzuki

18320
Synchrotron Micro-XRF Measurements of Trace Element Distributions in BGA Type Solders and Solder Joints
Transactions of The Japan Institute of Electronics Packaging, **3** (2010) 40-46
Kazuhiro Nogita, Hideyuki Yasuda, Christopher Gourlay, Shoichi Suenaga, Hideaki Tsukamoto, Stuart McDonald, Akihisa Takeuchi, Kentaro Uesugi, Yoshio Suzuki

18770
Thermoelectric Properties and Electronic Structure of Substituted Heusler Compounds: $NiTi_{0.3-x}Sc_xZr_{0.35}Hf_{0.35}Sn$
Applied Physics Letters, **97** (2010) 252113
Siham Ouardi, Gerhard Fecher, Benjamin Balke, Michael Schwall, Xeniya Kozina, Hryhoriy Stryhanyuk, Claudia Felser, Eiji Ikenaga, Yoshiyuki Yamashita, Shigenori Ueda, Keisuke Kobayashi

専用ビームライン

BL03XU

17882
Microscopic Observation of Aging of Silica Particles in Unvulcanized Rubber
Macromolecules, **43** (2010) 9480-9487
Yuya Shinohara, Hiroyuki Kishimoto, Naoto Yagi, Yoshiyuki Amemiya

BL07LSU

17960
Synchrotron Radiation Photoelectron Spectroscopy of Metal Gate / HfSiO(N) / SiO(N) / Si Stack Structures
ECS Transactions, **33** (2010) 231-240
Masaharu Oshima, Satoshi Toyoda, Hiroyuki Kamada, Tatsuhiko Tanimura, Yuki Nakamura, Koji Horiba, Hiroshi Kumigashira

BL08B2

18019
SCFT Simulation and SANS Study on Spatial Distribution of Solvents in Microphase Separation Induced by a Differentiating Non-Solvent in a Semi-Dilute Solution of an Ultra-High-Molecular-Weight Block Copolymer
Journal of Physics: Conference Series, **247** (2010) 012040
Koji Ando, Takahiko Yamanaka, Shigeru Okamoto, Naoki Sakamoto, Daisuke Yamaguchi, Satoshi Koizumi, Hirokazu Hasegawa, Naokiyo Koshikawa

BL11XU

16480
Magnetic Nature of the 500 meV Peak in $La_{2-x}Sr_xCuO_4$ Observed with Resonant Inelastic X-ray Scattering at the Cu *K*-edge
Physical Review B, **81** (2010) 085124
David Ellis, Jung-Ho Kim, John Hill, Shuichi Wakimoto, R. J. Birgeneau, Yuri Shyvd'ko, Diego Casa, Thomas Gog, Kenji Ishii, Kazuhiko Ikeuchi, A. Paramekanti, Young-June Kim

16737
Local Coordination about La^{3+} in Molten $LaCl_3$ and Its Mixtures with Alkali Chlorides
The Journal of Physical Chemistry A, **114** (2010) 4664-4671

Yoshihiro Okamoto, Shinichi Suzuki, Hideaki Shiwaku, Atsushi Ikeda-Ohno, Tsuyoshi Yaita, Paul Madden

17160
In situ Study of Strain Relaxation Mechanisms during Lattice-mismatched InGaAs/GaAs Growth by X-ray Reciprocal Space Mapping
Materials Research Society Symposia Proceedings, **1268** (2010) EE06-02
Takuo Sasaki, Hidetoshi Suzuki, Akihisa Sai, Masamitsu Takahashi, Seiji Fujikawa, Yoshio Ohshita, Masafumi Yamaguchi

17161
Study of Strain Relaxation Mechanisms in Lattice-mismatched III-V Heteroepitaxy
Doctor Thesis (Toyota Technological Institute), **21** (2010)
Takuo Sasaki

17272
Ultrahigh-Pressure Study on the Magnetic State of Iron Hydride using an Energy Domain Synchrotron Radiation ^{57}Fe Mössbauer Spectrometer
Materials Research Society Symposia Proceedings, **1262** (2010) W06-09
Takaya Mitsui, Naohisa Hirao

17273
Mössbauer Spectroscopy in the Energy Domain Using Synchrotron Radiation
Journal of Physics: Conference Series, **217** (2010) 012002
Makoto Seto, Ryo Masuda, Satoshi Higashitaniguchi, Shinji Kitao, Yasuhiro Kobayashi, Chika Inaba, Takaya Mitsui, Yoshitaka Yoda

17485
Time-Resolved X-ray Diffraction Measurements of High-Density InAs Quantum Dots on Sb/GaAs Layers and the Suppression of Coalescence by Sb-Irradiated Growth Interruption
Japanese Journal of Applied Physics, **49** (2010) 095602
Naoki Kakuda, Toshiyuki Kaizu, Masamitsu Takahashi, Seiji Fujikawa, Kouichi Yamaguchi

17597
Real-time Observation of Anisotropic Strain Relaxation by Three-Dimensional Reciprocal Space Mapping during InGaAs/GaAs (001) Growth
Applied Physics Letters, **97** (2010) 041906
Hidetoshi Suzuki, Takuo Sasaki, Akihisa Sai, Yoshio Ohshita, Itaru Kamiya, Masafumi Yamaguchi, Masamitsu Takahashi, Seiji Fujikawa

18041
Temperature Dependence of the Electronic Structure of $Sr_{14}Cu_{24}O_{41}$ Studied by Resonant Inelastic X-ray Scattering
Physica C, **470** (2010) S415-S416
Masahiro Yoshida, Kenji Ishii, Kazuhiko Ikeuchi, Ignace Jarrige, Youichi Murakami, Junichiro Mizuki, Kenji Tsutsui, Takami Tohyama, Sadamichi Maekawa, Kazutaka Kudo, Yoji Koike, Yasuo Endoh

BL12B2

18772
Probing the Size Effect of Co_2FeGa-SiO_2@C Nanocomposite Particles Prepared by a Chemical Approach
Chemistry of Materials, **22** (2010) 6575-6582
Changhai Wang, Lubna Basit, Yuriy Khalavka, Yanzhi Guo, Frederick Casper, Teuta Gasi, Vadim Ksenofontov, Benjamin Balke, Gerhard Fecher, Carsten Soennichsen, Yeu-Kuang Hwu, Jey-Jau Lee, Claudia Felser

BL12XU

17145
Pressure-Induced Spin-State Transition in $BiCoO_3$
Journal of the American Chemical Society, **132** (2010) 9438-9443
Kengo Oka, Masaki Azuma, Wei-Tin Chen, Hitoshi Yusa, Alexei Belik, Eiji Takayama-Muromachi, Masaichiro Mizumaki, Naoki Ishimatsu, Nozomu Hiraoka, Masahiko Tsujimoto, Matthew Tucker, Paul Attfield, Yuichi Shimakawa

18042
Resonant Inelastic X-ray Scattering of $La_2Cu_{0.95}Ni_{0.05}O_4$
Physica C, **470** (2010) S155-S157
Kenji Ishii, Kazuhiko Ikeuchi, Ignace Jarrige, Junichiro Mizuki, Haruhiro Hiraka, Kazuyoshi Yamada, Kenji Tsutsui, Takami Tohyama, Sadamichi Maekawa, Yasuo Endoh, Hirofumi Ishii, Yong Cai

18430
Electronic Structure of Crystalline ^{4}He at High Pressures
Physical Review Letters, **105** (2010) 186404
Ho-kwang Mao, Eric L. Shirley, Yang Ding, Peter Eng, Yong Q. Cai, Paul Chow, Yuming Xiao, Jinfu Shu, Russell J. Hemley, Chi-Chang Kao, Wendy Mao

18431
Charge Transfer in FeOCl Intercalation Compounds and Its Pressure Dependence: An X-ray Spectroscopic Study
Physical Review B, **82** (2010) 165121
Ignace Jarrige, Yong Q. Cai, Sean R. Shieh, Hirofumi Ishii, Nozomu Hiraoka, S. Karna, W.-H. Li

18432
Pressure-dependent Electronic Structures in Multiferroic $DyMnO_3$: a Combined Lifetime-broadening-suppressed X-ray Absorption Spectroscopy and *Ab Initio* Electronic Structure Study
The Journal of Chemical Physics, **133** (2010) 154510
Jin-Ming Chen, Jenn-Min Lee, T. L. Chou, S. A. Chen, Shih-Wen Huang, H. T. Jeng, K. T. Lu, T. H. Chen, Y. C. Liang, S. W. Chen, W. T. Chuang, H. S. Sheu, Nozomu Hiraoka, Hirofumi Ishii, Ku-Ding Tsuei, Eugene Huang, C. M. Lin, T. J. Yang

18433
High-pressure Evolution of Fe_2O_3 Electronic Structure Revealed by X-ray Absorption
Physical Review B, **82** (2010) 144428
Shibing Wang, Wendy Mao, Adam P. Sorini, Cheng-Chien Chen, Thomas P. Devereaux, Yang Ding, Yuming Xiao, Paul Chow, Nozomu Hiraoka, Hirofumi Ishii, Yong Cai, Chi-Chang Kao

18434
Intra- and Intersite Electronic Excitations in Multiferroic $TbMnO_3$ Probed by Resonant Inelastic X-ray Scattering
Physical Review B, **82** (2010) 094442
Jin-Ming Chen, Jenn-Min Lee, Shih-Wen Huang, K. T. Lu, H. T. Jeng, C. K. Chen, S. C. Haw, T. L. Chou, S. A. Chen, Nozomu Hiraoka, Hirofumi Ishii, Ku-Ding Tsuei, T. J. Yang

18436
Hybridization and Suppression of Superconductivity in $CeFeAsO_{1-y}$: Pressure and Temperature Dependence of the Electronic Structure
Physical Review B, **82** (2010) 125123
Hitoshi Yamaoka, Ignace Jarrige, Atsushi Ikeda-Ohno, Satoshi Tsutsui, Jung-Fu Lin, Nao Takeshita, Kiichi Miyazawa, Akira Iyo, Hijiri Kito, Hiroshi Eisaki, Nozomu Hiraoka, Hirofumi Ishii, Ku-Ding Tsuei

18437
Inelastic X-ray Scattering Study of the State-resolved Differential Cross Section of Compton Excitations in Helium Atoms
Physical Review A, **82** (2010) 032501
Binping Xie, Lin-Fan Zhu, Ke Yang, Bo Zhou, Nozomu Hiraoka, Yong Q. Cai, Y. Yao, C. Q. Wu, E. L. Wang, Donglai Feng

18438
Resonant X-ray Emission Study of the Lower-mantle Ferropericlase at High Pressures
American Mineralogist, **95** (2010) 1125-1131
Jung-Fu Lin, Zhu Mao, Ignace Jarrige, Yuming Xiao, Paul Chow, Takuo Okuchi, Nozomu Hiraoka, Steven D. Jacobsen

18439
Temperature and Pressure-induced Valence Transitions in $YbNi_2Ge_2$ and $YbPd_2Si_2$
Physical Review B, **82** (2010) 035111
Hitoshi Yamaoka, Ignace Jarrige, Naohito Tsujii, Nozomu Hiraoka, Hirofumi Ishii, Ku-Ding Tsuei

18440
Multiple Pre-edge Structures in Cu *K*-edge X-ray Absorption Spectra of High-T_c Cuprates Revealed by High-resolution X-ray Absorption Spectroscopy
Physical Review B, **81** (2010) 224519
C. Gougoussis, Jean-Pascal Rueff, M. Calandra, M. d'Astuto, Ignace Jarrige, Hirofumi Ishii, Abhay Shukla, I. Yamada, M. Azuma, M. Takano

18441
Diffraction-enhanced Beam-focusing for X-rays in Curved Multi-plate Crystal Cavity
Optics Express, **18** (2010) 7886-7892
Ying-Yi Chang, Sung-Yu Chen, Hsueh-Hung Wu, Shih-Chang Weng, ChenHsi Chu, Yen-Ru Lee, Mau-Tsu Tang, Yuriy Stetsko, B. Y. Shew, Makina Yabashi, Shih-Lin Chang

18442
Electronic Structure of $(Ce_{1-x}Nd_x)_3Al$ Probed by Resonant X-ray Emission Spectroscopy
Physical Review B, **81** (2010) 115137
Hitoshi Yamaoka, Ignace Jarrige, Ryoichi Yamagata, Katsuhiko Nishimura, Nozomu Hiraoka, Hirofumi Ishii, Ku-Ding Tsuei

18443
Focusing X-rays with Curved Multiplate Crystal Cavity
X-ray Optics and Instrumentation, **2010** (2010) 421945
Ying-Yi Chang, Sung-Yu Chen, Shih-Chang Weng, ChenHsi Chu, Mau-Tsu Tang, Yuriy Stetsko, Bo-Yuan Shew, Makina Yabashi, Shih-Lin Chang

BL14B1

16599
Growth and Characterization of Bismuth Magnesium Titanate $Bi(Mg_{1/2}Ti_{1/2})O_3$
Key Engineering Materials, **421-422** (2010) 30-33
Yasuhiro Yoneda, Kenji Yoshii, Hironori Hayakawa, Takashi Nishida, Naoshi Ikeda

16738
Structural Changes in Surface and Bulk $LiNi_{0.5}Mn_{0.5}O_2$ during Electrochemical Reaction on Epitaxial Thin-Film Electrodes Characterized by *in situ* X-ray Scattering
Physical Chemistry Chemical Physics, **12** (2010) 3815-3823
Kazuyuki Sakamoto, Masaaki Hirayama, Hiroaki Konishi, Noriyuki Sonoyama, Nicolas Dupré, Dominique Guyomard, Kazuhisa Tamura, Junichiro Mizuki, Ryoji Kanno

16784
Formation and Crystal Growth Process of AlH_3 in Al-H System
Journal of Alloys and Compounds, **496** (2010) L25-L28
Hiroyuki Saitoh, Yuka Okajima, Yasuhiro Yoneda, Akihiko Machida, Daichi Kawana, Tetsu Watanuki, Yoshinori Katayama, Katsutosi Aoki

16819
In situ X-ray Diffraction Measurement of the Hydrogenation and Dehydrogenation of Aluminum and Characterization of the Recovered AlH_3
Journal of Physics: Conference Series, **215** (2010) 012127
Hiroyuki Saitoh, Yoko Sakurai, Akihiko Machida, Yoshinori Katayama, Katsutosi Aoki

16860
Structure of Liquid Water under High Pressure up to 17 GPa
Physical Review B, **81** (2010) 014109
Yoshinori Katayama, Takanori Hattori, Hiroyuki Saitoh, Takashi Ikeda, Katsutosi Aoki, Hiroshi Fukui, Kenichi Funakoshi

16861
High-Temperature Water under Pressure
The Journal of Chemical Physics, **132** (2010) 121102
Takashi Ikeda, Yoshinori Katayama, Hiroyuki Saitoh, Katsutosi Aoki

16862
Structure of Liquid Iron Hydrogen Alloy under High Pressure
Journal of Physics: Conference Series, **215** (2010) 012080
Yoshinori Katayama, Hiroyuki Saitoh, Yoshiki Yomogida, Katsutosi Aoki

17191
High Pressure and Temperature Synthesis of Bi-based Perovskite $(Bi_{0.5}Na_{0.5-x}Li_x)TiO_3$
Transactions of the Materials Research Society of Japan, **35** (2010) 111-114
Masanori Fukunaga, Yasuhiro Yoneda, Ryota Fukuyama, Hiroyuki Saitoh, Naoshi Ikeda, Yoshinori Katayama

17240
Fe-doping Effects on Magnetism in Hole-type Superconductors of $(Bi,Pb)_2Sr_2CuO_6$
Journal of Physics: Conference Series, **200** (2010) 012059
Haruhiro Hiraka, Shuichi Wakimoto, Masayasu Takeda, Kazuhisa Kakurai, Daiju Matsumura, Yasuo Nishihata, Junichiro Mizuki, Kazuyoshi Yamada

17241
Real-time and Direct Observation of Hydrogen Absorption Dynamics for Pd Nanoparticles
Materials Research Society Symposia Proceedings, **1262** (2010) W06-10
Daiju Matsumura, Yuka Okajima, Yasuo Nishihata, Junichiro Mizuki

17242
Dynamic Structural Change in Pd-perovskite Automotive Catalyst Studied by Time-resolved Dispersive X-ray Absorption Fine Structure
Journal of Applied Physics, **107** (2010) 124319
Daiju Matsumura, Yasuo Nishihata, Junichiro Mizuki, Masashi Taniguchi, Mari Uenishi, Hirohisa Tanaka

17354
Strain Measurement of Aged Duplex Stainless Steel Using SR White X-rays
Materials Science Forum, **652** (2010) 161-166
Koji Kiriyama, Takahisa Shobu, Jun-ichi Shibano, Tomoyuki Fujishiro, Hiroshi Kaneko, Setsuo Miura

17480
Hydrogen Permeation Pathways for the Hydrogenation Reaction of Aluminum
Journal of Applied Physics, **108** (2010) 063516
Hiroyuki Saitoh, Akihiko Machida, Yoshinori Katayama, Katsutosi Aoki

17492

Magnetic and Dielectric Study of $R_{0.5}Sr_{0.5}MnO_3$ (R = Gd, Tb and Dy)

Materials Research Bulletin, **45** (2010) 1574-1580

Kenji Yoshii, Yusuke Hiramitsu, Yuka Okajima, Yasuhiro Yoneda, Yasuo Nishihata, Junichiro Mizuki, Akio Nakamura, Yutaka Shimojo, Yoshinobu Ishii, Yukio Morii, Naoshi Ikeda

17535

High Pressure Study of AlH_3 for Practical Hydrogen Storage Material

高圧力の科学と技術 (The Review of High Pressure Science and Technology), **20** (2010) 166-174

Hiroyuki Saitoh

17742

Dynamic Structural Changes at $LiMn_2O_4$/Electrolyte Interface during Lithium Battery Reaction

Journal of the American Chemical Society, **132** (2010) 15268-15276

Masaaki Hirayama, Hedekazu Ido, KyungSu Kim, Woosuk Cho, Kazuhisa Tamura, Junichiro Mizuki, Ryoji Kanno

17899

Orientation Dependence of Pd Growth on Au Electrode Surfaces

Journal of Physics: Condensed Matter, **22** (2010) 474002

Masamitsu Takahashi, Kazuhisa Tamura, Junichiro Mizuki, Toshihiro Kondo, Kohei Uosaki

BL15XU

16086

Melting of Zn Nanoparticles Embedded in SiO_2 at High Temperatures: Effects on Surface Plasmon Resonances

Applied Physics Letters, **96** (2010) 023110

Hiroshi Amekura, Masahiko Tanaka, Yoshio Katsuya, Hideki Yoshikawa, Hiroshi Shinotsuka, Shigeo Tanuma, Masato Ohnuma, Yoshitaka Matsushita, Keisuke Kobayashi, Christoph Buchal, Siegfried Mantl, Naoki Kishimoto

16103

Photoemission Study of the Tin Doped Cerium Oxide Thin Films Prepared by RF Magnetron Sputtering

Thin Solid Films, **518** (2010) 2206-2209

Nataliya Tsud, Tomas Skala, K. Masek, Petr Hanys, Motoi Takahashi, Hirokazu Suga, Toshiyuki Mori, Hideki Yoshikawa, Michiko Yoshitake, Keisuke Kobayashi, Vladimir Matolin

16483

Pt and Sn Doped Sputtered CeO_2 Electrodes for Fuel Cell Applications

Fuel Cells, **10** (2010) 139-144

Vladimir Matolin, Milos Cabala, Iva Matolinova, M. Skoda, M. Vaclavu, Kevin Prince, T. Skala, Toshiyuki Mori, Hideki Yoshikawa, Yoshiyuki Yamashita, Shigenori Ueda, Keisuke Kobayashi

16593

Bias-voltage Application in Hard X-Ray Photoelectron Spectroscopy for Characterization of Advanced Materials

e-Journal of Surface Science and Nanotechnology, **8** (2010) 81-83

Yoshiyuki Yamashita, Kenji Ohmori, Shigenori Ueda, Hideki Yoshikawa, Toyohiro Chikyow, Keisuke Kobayashi

16712

Synthesis of Monodisperse Zn-smectite

Applied Clay Science, **48** (2010) 55-59

Chelo Pascua, Masato Ohnuma, Yoshitaka Matsushita, Kenji Tamura, Hirohisa Yamada, Javier Cuadros, Jinhua Ye

16716

Synthesis, Crystal Structure, and Photoluminescence of Sr-α-SiAlON:Eu^{2+}

Journal of the American Ceramic Society, **93** (2010) 465-469

Kousuke Shioi, Naoto Hirosaki, Rongjun Xie, Takashi Takeda, Yuanqiang Li, Yoshitaka Matsushita

16742

Characterization of Surface Structure Evolution in Ni_3Al Foil Catalysts by Hard X-ray Photoelectron Spectroscopy

The Journal of Physical Chemistry C, **1144** (2010) 6047-6053

Ya Xu, Hideki Yoshikawa, Junhyuk Jang, Masahiko Demura, Keisuke Kobayashi, Shigenori Ueda, Yoshiyuki Yamashita, Dang Moon Wee, Toshiyuki Hirano

16769

Fabrication and Hard X-ray Photoemission Analysis of Photocathodes with Sharp Solar-Blind Sensitivity using AlGaN Films Grown on Si Substrates

Applied Surface Science, **256** (2010) 4442-4446

Masatomo Sumiya, Yutaro Kamo, Naoki Ohashi, Masaki Takeguchi, Yoon-Uk Heo, Hideki Yoshikawa, Shigenori Ueda, Keisuke Kobayashi, Tokuaki Nihashi, Minoru Hagino, Takayuki Nakano, Shunro Fuke

16802
Crystal Structures of Cr-based Magnetic Pyroxenes
Solid State Sciences, **12** (2010) 676-679
Yoshitaka Matsushita, Fujio Izumi, Masahiko Isobe, Yutaka Ueda

16888
Schottky Barrier Height Behavior of Pt-Ru Alloy Contacts on Single-Crystal n-ZnO
Journal of Applied Physics, **107** (2010) 103714
Takahiro Nagata, Janos Volk, Masamitsu Haemori, Yoshiyuki Yamashita, Hideki Yoshikawa, Ryoma Hayakawa, Michiko Yoshitake, Shigenori Ueda, Keisuke Kobayashi, Toyohiro Chikyow

16924
Large Magnetostriction from Morphotropic Phase Boundary in Ferromagnets
Physical Review Letters, **104** (2010) 197201
Sen Yang, Huixin Bao, Chao Zhou, Yu Wang, Xiaobing Ren, Yoshitaka Matsushita, Yoshio Katsuya, Masahiko Tanaka, Keisuke Kobayashi, Xiaoping Song, Jiangrong Gao

16945
Electronic Structure of W-Doped VO_2 Thin Films with Giant Metal-Insulator Transition Investigated by Hard X-ray Core-Level Photoemission Spectroscopy
Applied Physics Express, **3** (2010) 063201
Hidefumi Takami, Teruo Kanki, Shigenori Ueda, Keisuke Kobayashi, Hidekazu Tanaka

17142
Sulfur Modification of Au via Treatment with Piranha Solution Provides Low-Pd Releasing and Recyclable Pd Material, SAPd
Journal of the American Chemical Society, **132** (2010) 7270-7272
Naoyuki Hoshiya, Masahiko Shimoda, Hideki Yoshikawa, Yoshiyuki Yamashita, Satoshi Shuto, Mitsuhiro Arisawa

17163
Role of Electronic Structure in the Martensitic Phase Transition of $Ni_2Mn_{1-x}Sn_x$ Studied by Hard-X-Ray Photoelectron Spectroscopy and *Ab Initio* Calculation
Physical Review Letters, **104** (2010) 176401
Mao Ye, Akio Kimura, Yoshio Miura, Masafumi Shirai, Yi-Tao Cui, Kenya Shimada, Hirofumi Namatame, Masaki Taniguchi, Shigenori Ueda, Keisuke Kobayashi, Ryosuke Kainuma, Toetsu Shishido, Koji Fukushima, Takeshi Kanomata

17194
Hard X-ray Photoemission Spectroscopic Investigation of Palladium Catalysts Immobilized on a GaAs(001) Surface
Journal of Applied Physics, **108** (2010) 024309
Masahiko Shimoda, Tomoya Konishi, Kiyoshi Tateishi, Takashi Toujyou, Shiro Tsukamoto, Nagatoshi Nishiwaki, Mitsuhiro Arisawa, Naoyuki Hoshiya, Satoshi Shuto, Nobuhiro Isomura, Hiroshi Yokota, Yuuji Furukawa, Kanji Iizuka, Toshiya Ogiwara, Yuko Isozaki, Yoshiyuki Yamashita, Hideki Yoshikawa, Shigenori Ueda, Keisuke Kobayashi

17255
Platinum-Doped CeO_2 Thin Film Catalysts Prepared by Magnetron Sputtering
Langmuir, **26** (2010) 12824-12831
Vladimir Matolin, Iva Matolinova, M. Vaclavu, I. Khalakhan, Mykhailo Vorokhta, R. Fiala, Igor Pis, Z. Sofer, J. Poltierova-Vejpravova, Toshiyuki Mori, V. Potin, Hideki Yoshikawa, Shigenori Ueda, Keisuke Kobayashi

17352
Phase Stability and Superconducting Properties of AlB_2-Type $YbGa_xSi_{2-x}$ ($1.12 \leq x \leq 1.49$)
Chemistry of Materials, **22** (2010) 4690-4699
Naohito Tsujii, Motoharu Imai, Hitoshi Yamaoka, Ignace Jarrige, Hirofumi Oohashi, Tatsunori Tochio, Katsumi Handa, Junko Ide, Hideki Atsuta, Yoshiaki Ito, Hideki Yoshikawa, Hideaki Kitazawa

17443
Valence Band Structure of III-V Nitride Films Characterized by Hard X-ray Photoelectron Spectroscopy
Physica Status Solidi C, **7** (2010) 1903-1905
Masatomo Sumiya, Mickael Lozac'h, Nobuyuki Matsuki, Seitaro Ito, Naoki Ohashi, Kazuaki Sakoda, Hideki Yoshikawa, Shigenori Ueda, Keisuke Kobayashi

17464
Large Decrease in the Critical Temperature of superconducting $LaFeAsO_{0.85}$ Compounds Doped with 3% Atomic Weight of Nonmagnetic Zn Impurities
Physical Review B, **82** (2010) 054506
Y. F. Guo, Y. G. Shi, S. Yu, Alexei Belik, Yoshitaka Matsushita, Masahiko Tanaka, Yoshio Katsuya, Keisuke Kobayashi, I. Nowik, I. Felner, V. P. S. Awana, Kazunari Yamaura, Eiji Takayama-Muromachi

17465
Solid-Liquid Interface Synthesis of Microcrystalline Porous

Coordination Networks
Chemical Communications, **46** (2010) 6515-6517
Javier Martí-Rujas, Yoshitaka Matsushita, Fujio Izumi, Makoto Fujita, Masaki Kawano

17472
Pt_3Ti Nanoparticles: Fine Dispersion on SiO_2 Supports, Enhanced Catalytic CO Oxidation, and Chemical Stability at Elevated Temperatures
Langmuir, **26** (2010) 11446-11451
Govindachetty Saravanan, Hideki Abe, Ya Xu, Nobuaki Sekido, Hirohito Hirata, Shin-ichi Matsumoto, Hideki Yoshikawa, Yoko Yamabe-Mitarai

17626
$(In_{1-y}Mn_y)MnO_3$ ($1/9 \leq y \leq 1/3$): Unusual Perovskites with Unusual Properties
Angewandte Chemie International Edition, **49** (2010) 7723-7727
Alexei Belik, Yoshitaka Matsushita, Masahiko Tanaka, Eiji Takayama-Muromachi

17796
Alternately Layered Au/Fe_3O_4 with Porous Structure - a Self-Assembled Nanoarchitecture for Catalysis Materials
Journal of Materials Chemstry, **20** (2010) 7348-7351
Satoshi Kameoka, An-Pang Tsai

17889
Melting-solidification Transition of Zn Nanoparticles Embedded in SiO_2: Observation by Synchrotron X-ray and Ultraviolet-Visible-Near-Infrared Light
Journal of Applied Physics, **108** (2010) 104302
Hiroshi Amekura, Masahiko Tanaka, Yoshio Katsuya, Hideki Yoshikawa, Masato Ohnuma, Yoshitaka Matsushita, Keisuke Kobayashi, Naoki Kishimoto

17893
Interface Properties of Magnetic Tunnel Junction $La_{0.7}Sr_{0.3}MnO_3/SrTiO_3$ Superlattices Studied by Standing-Wave Excited Photoemission Spectroscopy
Physical Review B, **82** (2010) 205116
Alexander Gray, Christian Papp, Benjamin Balke, S.-H. Yang, M. Huijben, E. Rotenberg, A. Bostwick, Shigenori Ueda, Yoshiyuki Yamashita, Keisuke Kobayashi, E. M. Gullikson, J. B. Kortright, F. M. F. de Groot, G. Rijnders, D. H. A. Blank, R. Ramesh, Charles Fadley

18032
Band Gap and Electronic Structure of an Epitaxial, Semiconducting $Cr_{0.80}Al_{0.20}$ Thin Film
Physical Review Letters, **105** (2010) 236404
Zoe Boekelheide, Alexander Gray, Christian Papp, Benjamin Balke, D. A. Stewart, Shigenori Ueda, Keisuke Kobayashi, F. Hellman, Charles Fadley

18770
Thermoelectric Properties and Electronic Structure of Substituted Heusler Compounds: $NiTi_{0.3-x}Sc_xZr_{0.35}Hf_{0.35}Sn$
Applied Physics Letters, **97** (2010) 252113
Siham Ouardi, Gerhard Fecher, Benjamin Balke, Michael Schwall, Xeniya Kozina, Hryhoriy Stryhanyuk, Claudia Felser, Eiji Ikenaga, Yoshiyuki Yamashita, Shigenori Ueda, Keisuke Kobayashi

18773
Itinerant Half-metallic Ferromagnets Co_2TiZ (Z=Si, Ge, Sn): *Ab initio* Calculations and Measurement of the Electronic Structure and Transport Properties
Physical Review B, **81** (2010) 064404
Joachim Barth, Gerhard Fecher, Benjamin Balke, Siham Ouardi, Tanja Graf, Claudia Felser, Andrey Shkabko, Anke Weidenkaff, Peter Klaer, Hans Elmers, Hideki Yoshikawa, Shigenori Ueda, Keisuke Kobayashi

18890
Oxygen Migration at $Pt/HfO_2/Pt$ Interface under Bias Operation
Applied Physics Letters, **97** (2010) 082902
Takahiro Nagata, Masamitsu Haemori, Yoshiyuki Yamashita, Yuta Iwashita, Hideki Yoshikawa, Keisuke Kobayashi, Toyohiro Chikyow

18904
Self-assembled Porous Nano-composite with High Catalytic Performance by Reduction of Tetragonal Spinel $CuFe_2O_4$
Applied Catalysis A: General, **375** (2010) 163-171
Satoshi Kameoka, Toyokazu Tanabe, An-Pang Tsai

18905
Microstructure of Leached Al-Cu-Fe Quasicrystal with High Catalytic Performance for Steam Reforming of Methanol
Applied Catalysis A: General, **384** (2010) 241-251
Toyokazu Tanabe, Satoshi Kameoka An-Pang Tsai

19115
Reusability, Durability and Treatability of Palladium Catalyst

on a Semiconductor Plate: Comparison with Commercially Available Solid-Supported Palladium Catalysts
Journal of Inorgic and Organometallic Polymers and Materials, **20** (2010) 873-876
Nagatoshi Nishiwaki, Tomoya Konishi, Shiro Tsukamoto, Masahiko Shimoda

BL16B2

16841
Structural Defects Working as Active Oxygen-Reduction Sites in Partially-Oxidized Ta-Carbonitride Core-Shell Particles Probed by Using Surface-Sensitive Conversion-Electron-Yield X-ray Absorption Spectroscopy
Applied Physics Letters, **96** (2010) 191905
Hideto Imai, Masashi Matsumoto, Takashi Miyazaki, Shinji Fujieda, Akimitsu Ishihara, Motoko Tamura, Ken-ichiro Ota

17451
Partially Oxidized Niobium Carbonitride as a Non-Platinum Catalyst for the
Reduction of Oxygen in Acidic Medium
Electrochimica Acta, **55** (2010) 7290-7297
Kyung-Don Nam, Akimitsu Ishihara, Koichi Matsuzawa, Shigenori Matsushima, Ken-ichiro Ota, Masashi Matsumoto, Hideto Imai

17479
Structural Characterization of Amorphous Ta_2O_5 and SiO_2-Ta_2O_5 Used as Solid Electrolyte for Nonvolatile Switches
Applied Physics Letters, **97** (2010) 113507
Naoki Banno, Toshitsugu Sakamoto, Noriyuki Iguchi, Masashi Matsumoto, Hideto Imai, Toshinari Ichihashi, Shinji Fujieda, Kazuhiko Tanaka, Satoshi Watanabe, Shu Yamaguchi, Tsuyoshi Hasegawa, Masakazu Aono

BL16XU

16183
Structure of Monoethanolamine and Diethanolamine Carbamates in Aqueous Solutions Determined by High-Energy X-ray Scattering
Industrial & Engineering Chemistry Research, **49** (2010) 6-13
Hiroshi Deguchi, Yoshiyuki Kubota, Yasuyuki Yagi, Ikuko Mitani, Yoshihiro Imai, Masahiko Tatsumi, Noriko Watari, Takuya Hirata, Yasuo Kameda

17212
Large Area Imaging by Fourier Transform Holography Using Soft and Hard X-ray
Applied Physics Express, **3** (2010) 085201
Naoki Awaji, Kenji Nomura, Shuuichi Doi, Shinji Isogami, Masakiyo Tsunoda, Kenji Kodama, Motohiro Suzuki, Tetsuya Nakamura

17254
Magnetic Microstructures of Neodymium in $Nd_2Fe_{14}B$ Permanent Magnet by Hard X-ray Magnetic-Circular Dichroism Using Focused X-ray Beam
Applied Physics Letters, **97** (2010) 022510
Kazuhiro Ueda, Akira Nambu, Akio Yoneyama, Akira Sugawara, Seiji Heike, Tomihiro Hashizume, Hiroyuki Suzuki, Matahiro Komuro

BL22XU

16110
Density of Dry Peridotite Magma at High Pressure using an X-ray Absorption Method
American Mineralogist, **95** (2010) 144-147
Tatsuya Sakamaki, Eiji Ohtani, Satoru Urakawa, Akio Suzuki, Yoshinori Katayama

16340
X-ray Intensity Fluctuation Spectroscopy Using Nanofocused Hard X-rays: Its Application to Study of Relaxor Ferroelectrics
Japanese Journal of Applied Physics, **49** (2010) 020216
Kenji Oowada, Kazumichi Namikawa, Susumu Shimomura, Hironori Nakao, Hidekazu Mimura, Kazuto Yamauchi, Mitsuyoshi Matsushita, Junichiro Mizuki

16825
Powder X-ray Diffraction Study of Ne up to 240 GPa
Journal of Physics: Conference Series, **215** (2010) 012017
Kenichi Takemura, Tetsu Watanuki, Kenji Oowada, Akihiko Machida, Ayako Ohmura, Katsutosi Aoki

16844
Resonant X-ray Scattering Study of Hidden Order in URu_2Si_2 Using a Low-Stress Single Crystal
Journal of Physics: Conference Series, **200** (2010) 012007
Hiroshi Amitsuka, Toshiya Inami, Makoto Yokoyama, Shigeki Takayama, Yoichi Ikeda, Ikuto Kawasaki, Yoshiya Homma, Hiroyuki Hidaka, Tatsuya Yanagisawa

16845
Field-induced Incommensurate-to-Commensurate Transition in the Triangular Lattice Antiferromagnet $GdPd_2Al_3$
Journal of Physics: Conference Series, **200** (2010) 032022
Toshiya Inami, Noriki Terada, Hideaki Kitazawa, Osamu Sakai

16846
Resonant Magnetic X-ray Diffraction Study on the Successive Metamagnetic Transitions of TbB_4 up to 30 T
Journal of Physics: Conference Series, **211** (2010) 012010
Toshiya Inami, Kenji Oowada, Yasuhiro Matsuda, Zhongwen Ouyang, Hiroyuki Nojiri, Takeshi Matsumura, Daisuke Okuyama, Youichi Murakami

17175
Pitting Damage and Residual Stress Induced by Cavitation Erosion on Mercury Target Vessel
Journal of Nuclear Science and Technology, **47** (2010) 136-141
Hiroshi Suzuki, Takahisa Shobu, Masatoshi Futakawa, Takashi Wakui, Takashi Naoe

17185
Hybrid Measurement of CT and Strain Distribution of Internal Crack Using Synchrotron High-Energy Monochromatic X-Rays
Materials Science Forum, **652** (2010) 202-209
Keisuke Tanaka, Takahisa Shobu, Hiroshi Kimachi

17186
In-situ Observation for Elucidation of Stress Corrosion Cracking Mechanism in High-temperature and High-pressure Water
Materials Science Forum, **652** (2010) 285-289
Tomoyuki Fujishiro, Takahisa Shobu, Koji Kiriyama, Atsushi Yamamoto

17324
Atomic-Scale Characterization of Elastic Deformation of Zr-Based Metallic Glass under Tensile Stress
Materials Transactions, **51** (2010) 1381-1385
Shigeo Sato, Hiroshi Suzuki, Takahisa Shobu, Muneyuki Imafuku, Yoshinori Tsuchiya, Kazuaki Wagatsuma, Hidemi Kato, Setyawan Albertus Deny, Junji Saida

17441
Intermediate-Valence Quasicrystal of a Cd-Yb Alloy under Pressure
Physical Review B, **81** (2010) 220202(R)
Daichi Kawana, Tetsu Watanuki, Akihiko Machida, Takahisa Shobu, Katsutosi Aoki, An-Pang Tsai

18172
Observation of Two Charge Ordering Transitions in the Valence-fluctuating EuPtP by Resonant X-ray Diffraction
Physical Review B, **82** (2010) 195133
Toshiya Inami, Shinji Michimura, Akihiro Mitsuda, Hirofumi Wada

18179
Critical Competition between Two Distinct Orbital-Spin Ordered States in Perovskite Vanadates
Physical Review B, **82** (2010) 144425
Jun Fujioka, Toshio Yasue, Shigeki Miyasaka, Yuichi Yamasaki, Taka-hisa Arima, Hajime Sagayama, Toshiya Inami, Kenji Ishii, Yoshiki Tokura

18333
Density of High-Ti Basalt Magma at High Pressure and Origin of Heterogeneities in the Lunar Mantle
Earth and Planetary Science Letters, **299** (2010) 285-289
Tatsuya Sakamaki, Eiji Ohtani, Satoru Urakawa, Akio Suzuki, Yoshinori Katayama, Dapeng Zhao

BL23SU

16516
Electronic Structure and Magnetism of the Diluted Magnetic Semiconductor Fe-doped ZnO Nanoparticles
Journal of Applied Physics, **107** (2010) 033718
Takashi Kataoka, Masaki Kobayashi, Yuta Sakamoto, Gyongsok Song, Atsushi Fujimori, Fan-Hsiu Chang, Hong-Ji Lin, Di-Jing Huang, Chien-Te Chen, Takuo Ohkouchi, Yukiharu Takeda, Tetsuo Okane, Yuji Saitoh, Hiroshi Yamagami, Arata Tanaka, Sudip Kumar Mandal, Tapan Kumar Nath, Debjani Karmakar, Indra Dasgupta

16517
Antiferromagnetic Interaction between Paramagnetic Co Ions in the Diluted Magnetic Semiconductor $Zn_{1-x}Co_xO$
Physical Review B, **81** (2010) 075204
Masaki Kobayashi, Yukiaki Ishida, Jong-Il Hwang, Yoshitaka Osafune, Atsushi Fujimori, Yukiharu Takeda, Tetsuo Okane, Yuji Saitoh, Keisuke Kobayashi, Hiromasa Saeki, Tomoji Kawai, Hitoshi Tabata

16920
Bulk Sensitive Soft X-ray Angle-Resolved Photoemission Spectroscopy of $Bi_{1.72}Pb_{0.38}Sr_{1.88}CuO_{6+\delta}$
Journal of the Physical Society of Japan, **79** (2010) 064711

Tsunehiro Takeuchi, Yoichiro Hamaya, Hiroshi Ikuta, Takuo Ohkouchi, Shin-ichi Fujimori, Yuji Saitoh

17204
Improvement in Low-voltage Performance of Surface-Electrode Soft-X-ray Detectors Composed of Undoped Homoepitaxial CVD/HPHT Ib Diamond Layers
Nuclear Instruments and Methods in Physics Research Section A, **621** (2010) 650-655
Masayuki Kanasugi, Yoko Iwakaji, T. Yamamoto, Osamu Maida, Yukiharu Takeda, Yuji Saitoh, Toshimichi Ito

17206
Electronic States of Magnetic Refrigerator Materials $Mn_{0.9}$ $Fe_{1.1}P_{0.55}As_{0.45}$ using Soft X-ray Magnetic Circular Dichroism
Journal of Physics: Conference Series, **200** (2010) 012199
Yukiharu Takeda, Tetsuo Okane, Takuo Ohkouchi, Shin-ichi Fujimori, Yuji Saitoh, Hiroshi Yamagami, Hisato Yabuta, Toshiro Takabatake

17214
X-ray Absorption Spectra of Nucleotides (AMP, GMP, and CMP) in Liquid Water Solutions Near the Nitrogen K-edge
Chemical Physics Letters, **495** (2010) 90-95
Masatoshi Ukai, Akinari Yokoya, Kentaro Fujii, Yuji Saitoh

17362
Electronic Structure Analysis of UIr Using Soft X-ray Photoemission Spectroscopy and Band Calculation
Journal of Physics: Conference Series, **200** (2010) 012229
Hiroshi Yamagami, Takuo Ohkouchi, Shin-ichi Fujimori, Takafumi Toshimitsu, Akira Yasui, Tetsuo Okane, Yuji Saitoh, Atsushi Fujimori, Yoshinori Haga, Etsuji Yamamoto, Shugo Ikeda, Yoshichika Onuki

17396
Epitaxial Graphene on Silicon Substrates
Journal of Physics D: Applied Physics, **43** (2010) 374012
Hirokazu Fukidome, Maki Suemitsu

17446
Photoelectron Holography with Improved Image Reconstruction
Journal of Electron Spectroscopy and Related Phenomena, **178-179** (2010) 195-220
Tomohiro Matsushita, Fumihiko Matui, Hiroshi Daimon, Kouichi Hayashi

17568
The Study of Oxidation on TiAl Surface with Photoemission Spectroscopy in Conjunction with Synchrotron Radiation
電気学会論文誌C (IEEJ Transactions on Electronic, Information and Systems), **130** (2010) 1723-1729
Michihiro Hashinokuchi, Yuichi Sumimoto, Mayumi Tode, James Harries, Michio Okada, Yuden Teraoka, Toshio Kasai

17572
Thermal Degradation Analysis of Deuterium Ion Implanted $V_{25}Cr_{40}Ti_{35}$ Using Synchrotron Radiation Photoelectron Spectroscopy
電気学会論文誌C (IEEJ Transactions on Electronic, Information and Systems), **130** (2010) 1819-1820
Mayumi Tode, James Harries, Yuden Teraoka, Akitaka Yoshigoe

17573
Experimental Determination of Effective Attenuation Length for SiO_2 Thin Film with Synchrotron Radiation Photoemission Spectroscopy
電気学会論文誌C (IEEJ Transactions on Electronic, Information and Systems), **130** (2010) 1817-1818
Keisuke Inoue, Yuden Teraoka

17590
Selective Damage Induction of DNA Induced by Monochromatic Soft X-rays
放射線化学 (Radiation Chemistry), **90** (2010) 17-22
Kentaro Fujii

17669
Synchrotron Radiation Photoelectron Spectroscopy and Near-Edge X-ray Absorption Fine Structure Study on Oxidative Etching of Diamond-like Carbon Films by Hyperthermal Atomic Oxygen
Applied Surface Science, **256** (2010) 7678-7683
Masahito Tagawa, Kumiko Yokota, Akira Kitamura, Koji Matsumoto, Akitaka Yoshigoe, Yuden Teraoka, Kazuhiro Kanda, Masahito Niibe

17972
Active Oxidation of Cu_3Au(1 1 0) Using Hyperthermal O_2 Molecular Beam
Applied Surface Science, **256** (2010) 5676-5680
Michio Okada, Yuden Teraoka

18633
Immediate Products after Exposing Si(111)-7x7 Surface to O_2

at 300 K
Japanese Journal of Applied Physics, **49** (2010) 115704
Akitaka Yoshigoe, Yuden Teraoka

18634
Adsorption Dynamics on Si(111)-7x7 Surface Induced by Supersonic O_2 Beam Studied Using Real-Time Photoelectron Spectroscopy
The Journal of Physical Chemistry C, **114** (2010) 22539-22545
Akitaka Yoshigoe, Yuden Teraoka

BL24XU

16636
Development of a Total Reflection Zone Plate for Hard X-ray Focusing
Japanese Journal of Applied Physics, **49** (2010) 030207
Takuya Tsuji, Hidekazu Takano, Takahisa Koyama, Yoshiyuki Tsusaka, Yasushi Kagoshima

17507
A Simple Hard X-ray "Nanoslit" for Measuring Wavefront Intensity
Review of Scientific Instruments, **81** (2010) 073702
Hidekazu Takano, Takuto Hashimoto, Takuya Tsuji, Takahisa Koyama, Yoshiyuki Tsusaka, Yasushi Kagoshima

17508
Sub-15 nm Hard X-Ray Focusing with a New Total-Reflection Zone Plate
Applied Physics Express, **3** (2010) 076702
Hidekazu Takano, Takuya Tsuji, Takuto Hashimoto, Takahisa Koyama, Yoshiyuki Tsusaka, Yasushi Kagoshima

17847
Separately Contacted Monocrystalline Silicon Double-Layer Structure with an Amorphous Silicon Dioxide Barrier Made by Wafer Bonding
Semiconductor Science and Technology, **25** (2010) 125001
Kei Takashina, Masao Nagase, Katsuhiko Nishiguchi, Yukinori Ono, Hiroo Omi, Akira Fujiwara, Toshimasa Fujisawa, Koji Muraki

18318
A Structure-based Mechanism for Benzalactone Synthase from *Rheum palmatum*
Proceedings of the National Academy of Sciences of the United States of America, **107** (2010) 669-673
Hiroyuki Morita, Yoshihiko Shimokawa, Michikazu Tanio, Ryohei Kato, Hiroshi Noguchi, Shigetoshi Sugio, Toshiyuki Kohno, Ikuro Abe

BL32B2

17437
Investigation of the Histamine H3 Receptor Binding Site. Design and Synthesis of Hybrid Agonists with a Lipophilic Side Chain
Journal of Medicinal Chemistry, **53** (2010) 6445-6456
Makoto Ishikawa, Takashi Watanabe, Toshiaki Kudo, Fumikazu Yokoyama, Miki Yamauchi, Kazuhiko Kato, Nobukazu Kakui, Yasuo Sato

BL33LEP

16120
Measurement of the Incoherent $\gamma d \rightarrow \phi pn$ Photoproduction Near Threshold
Physics Letters B, **684** (2010) 6-10
Wen-Chen Chang, Manabu Miyabe, Takashi Nakano, DeukSoon Ahn, Jung-Keun Ahn, Hidetoshi Akimune, Yoshihiro Asano, Schin Date, Hiroyasu Ejiri, Hisako Fujimura, Mamoru Fujiwara, Shuji Fukui, Shoichi Hasegawa, Kenneth Hicks, Keito Horie, Tomoaki Hotta, Kenichi Imai, Takatsugu Ishikawa, Takahiro Iwata, Yuji Kato, Hideyuki Kawai, Koichi Kino, Hideki Kohri, Noritaka Kumagai, Seiji Makino, Tatsuro Matsuda, Toru Matsumura, Nobuyuki Matsuoka, Tsutomu Mibe, Yoshiyuki Miyachi, Norihito Muramatsu, Masayuki Niiyama, Masaharu Nomachi, Yuji Ohashi, Haruo Ohkuma, Takahito Ooba, Dmitry Oshuev, Chary Rangacharyulu, Atsushi Sakaguchi, Peter Shagin, Yuki Shiino, Hajime Shimizu, Yorihito Sugaya, Mizuki Sumihama, Yuya Toi, Hidenori Toyokawa, Makoto Uchida, Atsushi Wakai, Chang-Wan Wang, Sun-Chong Wang, Katsuya Yonehara, Tetsuhiko Yorita, Masato Yoshimura, Masaru Yosoi, Remco Zegers

16873
Near-Threshold $\Lambda(1520)$ Production by the $\gamma p \rightarrow K^+ \Lambda(1520)$ Reaction at Forward K^+ Angles
Physical Review Letters, **104** (2010) 172001
Hideki Kohri, Deuk-Soon Ahn, Jung-Keun Ahn, Hidetoshi Akimune, Yoshihiro Asano, Wen-Chen Chang, Schin Date, Hiroyasu Ejiri, Shuji Fukui, Hisako Fujimura, Mamoru Fujiwara, Shoichi Hasegawa, Kenneth Hicks, Atsushi Hosaka, Tomoaki Hotta, Kenichi Imai, Takatsugu Ishikawa, Takahiro Iwata, Hideyuki Kawai, Koichi Kino, Noritaka Kumagai, Seiji Makino, Tatsuro Matsuda, Toru Matsumura, Tsutomu Mibe, Manabu

Miyabe, Masataka Morita, Norihito Muramatsu, Takashi Nakano, Seung-il Nam, Masayuki Niiyama, Masaharu Nomachi, Yuji Ohashi, Haruo Ohkuma, Takahito Ooba, Dmitry Oshuev, Chary Rangacharyulu, Atsushi Sakaguchi, Peter Shagin, Yuki Shiino, Hajime Shimizu, Yorihito Sugaya, Mizuki Sumihama, Alexander Titov, Yuya Toi, Hidenori Toyokawa, Atsushi Wakai, Chang-Wan Wang, Sun-Chong Wang, Tetsuhiko Yorita, Masato Yoshimura, Masaru Yosoi, Z. Y. Kim, N. Matsuoka, Y. Miyachi, T. Sasaki, Akira Shimizu, K. Yonehara, Remco Zegers

BL44XU

15916
Crystallization and Preliminary X-ray Characterization of the Skp1-Fbg3 Complex
Acta Crystallographica Section F, **66** (2010) 95-98
Taichi Kumanomidou, Tomomi Nakagawa, Tsunehiro Mizushima, Atsuo Suzuki, Fuminori Tokunaga, Kazuhiro Iwai, Yukiko Yoshida, Keiji Tanaka, Takashi Yamane

16374
Crystal Structure of Plant Ferritin Reveals a Novel Metal Binding Site That Functions as a Transit Site for Metal Transfer in Ferritin
The Journal of Biological Chemistry, **285** (2010) 4049-4059
Taro Masuda, Fumiyuki Goto, Toshihiro Yoshihara, Bunzo Mikami

16717
Structural Basis for Specific Recognition of Reelin by Its Receptors
Structure, **18** (2010) 320-331
Norihisa Yasui, Terukazu Nogi, Junichi Takagi

16743
Global Conformational Change Associated with the Two-step Reaction Catalyzed by *Escherichia coli* Lipoate-Protein Ligase A
The Journal of Biological Chemistry, **285** (2010) 9971-9980
Kazuko Fujiwara, Nobuo Maita, Harumi Hosaka, Kazuko Okamura-Ikeda, Atsushi Nakagawa, Hisaaki Taniguchi

16771
Structural and Dynamic Features of the MutT Protein in the Recognition of Nucleotides with the Mutagenic 8-oxoguanine Base
The Journal of Biological Chemistry, **285** (2010) 444-452
Teruya Nakamura, Sachiko Meshitsuka, Seiju Kitagawa, Nanase Abe, Junichi Yamada, Tetsuya Ishino, Hiroaki Nakano, Teruhisa Tsuzuki, Takefumi Doi, Yuji Kobayashi, Satoshi Fujii, Mutsuo Sekiguchi, Yuriko Yamagata

16834
Crystal Structure of Yeast Rpn14, a Chaperone of the 19 S Regulatory Particle of the Proteasome
The Journal of Biological Chemistry, **285** (2010) 15159-15166
Sangwoo Kim, Yasushi Saeki, Keisuke Fukunaga, Atsuo Suzuki, Kenji Takagi, Takashi Yamane, Keiji Tanaka, Tsunehiro Mizushima, Koichi Kato

16835
Crystallization and Preliminary Crystallographic Analysis of Cyanide-Insensitive Alternative Oxidase from *Trypanosoma brucei brucei*
Acta Crystallographica Section F, **66** (2010) 275-278
Yasutoshi Kido, Tomoo Shiba, Ken Inaoka, Kimitosi Sakamoto, Takeshi Nara, Takashi Aoki, Teruki Honma, Akiko Tanaka, Masayuki Inoue, Shigeru Matsuoka, Anthony Moore, Shigeharu Harada, Kiyoshi Kita

16836
Overproduction, Purification, Crystallization and Preliminary X-ray Diffraction Analysis of *Trypanosoma brucei gambiense* Glycerol Kinase
Acta Crystallographica Section F, **66** (2010) 304-308
Emmanuel Balogun, Ken Inaoka, Yasutoshi Kido, Tomoo Shiba, Takeshi Nara, Takashi Aoki, Teruki Honma, Akiko Tanaka, Masayuki Inoue, Shigeru Matsuoka, Paul A. M. Michels, Shigeharu Harada, Kiyoshi Kita

17564
Amino Acids and Glycine Ethyl Ester as New Crystallization Reagents for Lysozyme
Acta Crystallographica Section F, **66** (2010) 750-754
Len Ito, Kentaro Shiraki, Hiroshi Yamaguchi

17621
Crystal Structures of Human Ero1α Reveal the Mechanisms of Regulated and Targeted Oxidation of PDI
The EMBO Journal, **29** (2010) 3330-3343
Kenji Inaba, Shoji Matsui, Hiroka Iida, Stefano Vavassori, Roberto Sitia, Mamoru Suzuki

17909
Crystallization and Preliminary X-ray Structural Analysis of Nucleoside Triphosphate Hydrolases from *Neospora caninum* and *Toxoplasma gondii*

Acta Crystallographica Section F, **66** (2010) 1445-1448
Kazuaki Matoba, Tomoo Shiba, Tsutomu Takeuchi, L. David Sibley, Makiko Seiki, Fumi Kikyo, Toshio Horiuchi, Takashi Asai, Shigeharu Harada

18473
Kinetic and Crystallographic Analyses of the Catalytic Domain of Chitinase from *Pyrococcus furiosus* - the Role of Conserved Residues in the Active Site
The FEBS Journal, **277** (2010) 2683-2695
Hiroaki Tsuji, Shigenori Nishimura, Takashi Inui, Yuuji Kado, Kazuhiko Ishikawa, Tsutomu Nakamura, Koichi Uegaki

18725
Solution of the Structure of the TNF-TNFR2 Complex
Science Signaling, **3** (2010) ra83
Yohei Mukai, Teruya Nakamura, Mai Yoshikawa, Yasuo Yoshioka, Shin-ichi Tsunoda, Shinsaku Nakagawa, Yuriko Yamagata, Yasuo Tsutsumi

19010
Structural and Functional Studies on Ycf12 (Psb30) and PsbZ-deletion Mutants from a Thermophilic Cyanobacterium
Biochimica et Biophysica Acta – Bioenergetics, **1797** (2010) 278-284
Kenji Takasaka, Masako Iwai, Yasufumi Umena, Keisuke Kawakami, Yukari Ohmori, Masahiko Ikeuchi, Yuichiro Takahashi, Nobuo Kamiya, Jian-Ren Shen

理研ビームライン
BL17SU

15562
Complete Assignment of Spin Domains in Antiferromagnetic NiO(100) by Photoemission Electron Microscopy and Cluster Model Calculation
Journal of the Physical Society of Japan, **79** (2010) 013703
Kuniaki Arai, Taichi Okuda, Arata Tanaka, Masato Kotsugi, Keiki Fukumoto, Masaki Oura, Yasunori Senba, Haruhiko Ohashi, Tetsuya Nakamura, Tomohiro Matsushita, Takayuki Muro, Akito Kakizaki, Toyohiko Kinoshita

16106
Circularly Polarized X-rays Probe Crystal Chirality
日本物理学会誌 (Butsuri), **65** (2010) 29-34
Yoshikazu Tanaka, Ashish Chainani, Shik Shin

16168
Resonant Photoemission Spectroscopy of Layered Triangular Lattices Ag_2MO_2 (M=Ni and Mn): Evidence for M 3d States at Fermi Level
Journal of the Physical Society of Japan, **79** (2010) 023704
Ritsuko Eguchi, Hiroyuki Yoshida, Yoshihiko Okamoto, Ashish Chainani, Masaharu Matsunami, Yukiaki Ishida, Masaki Oura, Yasunori Senba, Haruhiko Ohashi, Shik Shin, Zenji Hiroi

16447
Out-of Plane Nesting Driven Spin Spiral in Ultrathin Fe/Cu(001) Films
Physical Review Letters, **104** (2010) 066407
Jun Miyawaki, Ashish Chainani, Yasutaka Takata, Mattia Mulazzi, Masaki Oura, Yasunori Senba, Haruhiko Ohashi, Shik Shin

16631
Anomalous State Sandwiched between Fermi Liquid and Charge Ordered Mott-Insulating Phases of Ti_4O_7
Physical Review Letters, **104** (2010) 106401
Munetaka Taguchi, Ashish Chainani, Masaharu Matsunami, Ritsuko Eguchi, Yasutaka Takata, Makina Yabashi, Kenji Tamasaku, Yoshinori Nishino, Tetsuya Ishikawa, Shunsuke Tsuda, Shuntaro Watanabe, Cheng T. Chen, Yasunori Senba, Haruhiko Ohashi, Kohei Fujiwara, Yoshinobu Nakamura, Hidenori Takagi, Shik Shin

16964
Evidence for a Correlated Insulator to Antiferromagnetic Metal Transition in CrN
Physical Review Letters, **104** (2010) 236404
Preeti Bhobe, Ashish Chainani, Munetaka Taguchi, Tomoyuki Takeuchi, Ritsuko Eguchi, Masaharu Matsunami, Kyoko Ishizaka, Yasutaka Takata, Masaki Oura, Yasunori Senba, Haruhiko Ohashi, Yoshinori Nishino, Makina Yabashi, Kenji Tamasaku, Tetsuya Ishikawa, Koshi Takenaka, Hidenori Takagi, Shik Shin

17031
Vibrationally Resolved Resonant X-ray Emission Spectra of Diatomic Molecules
Journal of Physics: Conference Series, **235** (2010) 012016
Masaki Oura, Osamu Takahashi, Tatsuo Gejo, Takashi Tokushima, Yuka Horikawa, Yasunori Senba, Haruhiko Ohashi, Shik Shin

17369
Absence of Nesting in the Charge-Density-Wave System 1T-

VS2 as Seen by Photoelectron Spectroscopy
Physical Review B, **82** (2010) 075130
Mattia Mulazzi, Ashish Chainani, Naoyuki Katayama, Ritsuko Eguchi, Masaharu Matsunami, Haruhiko Ohashi, Yasunori Senba, Minoru Nohara, Masaya Uchida, Hidenori Takagi, Shik Shin

17391
Electronic Structure of $SrRu_{1-x}Mn_xO_3$ Studied by Photoemission and X-ray Absorption Spectroscopy
Physical Review B, **81** (2010) 245127
Koji Horiba, Hirofumi Kawanaka, Yoshihiro Aiura, Tomohiko Saitoh, Chimato Satoh, Yuko Kikuchi, Makoto Yokoyama, Yoshikazu Nishihara, Ritsuko Eguchi, Yasunori Senba, Haruhiko Ohashi, Yoshinori Kitajima, Shik Shin

BL19LXU

17798
The Prominent 5d-orbital Contribution to the Conduction Electrons in Gold
New Journal of Physics, **12** (2010) 043045
Akira Sekiyama, Junichi Yamaguchi, Atsushi Higashiya, Masaaki Obara, Hiroshi Sugiyama, Masato Kimura, Shigemasa Suga, Shin Imada, Igor A. Nekrasov, Makina Yabashi, Kenji Tamasaku, Tetsuya Ishikawa

BL26B1

17111
Crystal Structure of an Archaeal Cleavage and Polyadenylation Specificity Factor Subunit from *Pyrococcus horikoshii*
Proteins: Structure, Function, and Bioinformatics, **78** (2010) 2395-2398
Yuya Nishida, Hirohito Ishikawa, Seiki Baba, Noriko Nakagawa, Seiki Kuramitsu, Ryoji Masui

17112
The First Crystal Structure of an Archaeal Metallo-β-lactamase Superfamily Protein; ST1585 from *Sulfolobus tokodaii*
Proteins: Structure, Function, and Bioinformatics, **78** (2010) 2399-2402
Atsuhiro Shimada, Hirohito Ishikawa, Noriko Nakagawa, Seiki Kuramitsu, Ryoji Masui

18364
Crystal Structures of Glycinamide Ribonucleotide Synthetase, PurD, from Thermophilic Eubacteria
The Journal of Biochemistry, **4** (2010) 429-438
Gen-ichi Sampei, Seiki Baba, Mayumi Kanagawa, Hisaaki Yanai, Takeshi Ishii, Hiroya Kawai, Yoko Fukai, Akio Ebihara, Noriko Nakagawa, Gota Kawai

18516
Two Distinct Mechanisms for Actin Capping Protein Regulation - Steric and Allosteric Inhibition
PLoS Biology, **8** (2010) e1000416
Shuichi Takeda, Shiho Minakata, Ryotaro Koike, Ichiro Kawahata, Akihiro Narita, Masashi Kitazawa, Motonori Ota, Tohru Yamakuni, Yuichiro Maeda, Yasushi Nitanai

BL26B2

16697
Structure of RecJ Exonuclease Defines Its Specificity for Single-Stranded DNA
The Journal of Biological Chemistry, **285** (2010) 9762-9769
Taisuke Wakamatsu, Yoshiaki Kitamura, Yutaro Kotera, Noriko Nakagawa, Seiki Kuramitsu, Ryoji Masui

16752
Crystal Structure of the Peptidase Domain of *Streptococcus* ComA, a Bifunctional ATP-binding Cassette Transporter Involved in the Quorum-Sensing Pathway
The Journal of Biological Chemistry, **285** (2010) 10777-10785
Seiji Ishi, Takato Yano, Akio Ebihara, Akihiro Okamoto, Miho Manzoku, Hideyuki Hayashi

17084
Structural and Functional Characterization of Transcriptional Repressor CsoR from *Thermus thermophilus* HB8
Microbiology, **156** (2010) 1993-2005
Keiko Sakamoto, Yoshihiro Agari, Kazuko Agari, Seiki Kuramitsu, Akeo Shinkai

18111
Crystal Structure of the Light-Driven Chloride Pump Halorhodopsin from *Natronomonas pharaonis*
Journal of Molecular Biology, **396** (2010) 564-579
Tsutomu Kouyama, Soun Kanada, Yuu Takeguchi, Akihiro Narusawa, Midori Murakami, Kunio Ihara

18364
Crystal Structures of Glycinamide Ribonucleotide Synthetase, PurD, from Thermophilic Eubacteria
The Journal of Biochemistry, **4** (2010) 429-438

Gen-ichi Sampei, Seiki Baba, Mayumi Kanagawa, Hisaaki Yanai, Takeshi Ishii, Hiroya Kawai, Yoko Fukai, Akio Ebihara, Noriko Nakagawa, Gota Kawai

BL29XU

16631
Anomalous State Sandwiched between Fermi Liquid and Charge Ordered Mott-Insulating Phases of Ti_4O_7
Physical Review Letters, **104** (2010) 106401
Munetaka Taguchi, Ashish Chainani, Masaharu Matsunami, Ritsuko Eguchi, Yasutaka Takata, Makina Yabashi, Kenji Tamasaku, Yoshinori Nishino, Tetsuya Ishikawa, Shunsuke Tsuda, Shuntaro Watanabe, Cheng T. Chen, Yasunori Senba, Haruhiko Ohashi, Kohei Fujiwara, Yoshinobu Nakamura, Hidenori Takagi, Shik Shin

16936
An Experimental Procedure for Precise Evaluation of Electron Density Distribution of a Nanostructured Material by Coherent X-ray Diffraction Microscopy
Review of Scientific Instruments, **81** (2010) 033707
Yukio Takahashi, Hideto Kubo, Yoshinori Nishino, Hayato Furukawa, Ryosuke Tsutsumi, Kazuto Yamauchi, Tetsuya Ishikawa, Ei-ichiro Matsubara

16937
Two-Dimensional Measurement of Focused Hard X-ray Beam Profile Using coherent X-ray Diffraction of Isolated Nanoparticle
Nuclear Instruments and Methods in Physics Research Section A, **616** (2010) 266-269
Yukio Takahashi, Hideto Kubo, Ryosuke Tsutsumi, Shigeyuki Sakaki, Nobuyuki Zettsu, Yoshinori Nishino, Tetsuya Ishikawa, Kazuto Yamauchi

16938
Three-Dimensional Electron Density Mapping of Shape-Controlled Nanoparticle by Focused Hard X-ray Diffraction Microscopy
Nano Letters, **10** (2010) 1922-1926
Yukio Takahashi, Nobuyuki Zettsu, Yoshinori Nishino, Ryosuke Tsutsumi, Ei-ichiro Matsubara, Tetsuya Ishikawa, Kazuto Yamauchi

16964
Evidence for a Correlated Insulator to Antiferromagnetic Metal Transition in CrN
Physical Review Letters, **104** (2010) 236404
Preeti Bhobe, Ashish Chainani, Munetaka Taguchi, Tomoyuki Takeuchi, Ritsuko Eguchi, Masaharu Matsunami, Kyoko Ishizaka, Yasutaka Takata, Masaki Oura, Yasunori Senba, Haruhiko Ohashi, Yoshinori Nishino, Makina Yabashi, Kenji Tamasaku, Tetsuya Ishikawa, Koshi Takenaka, Hidenori Takagi, Shik Shin

17118
Quantitative 3D Imaging of Whole, Unstained Cells by using X-ray Diffraction Microscopy
Proceedings of the National Academy of Sciences of the United States of America, **107** (2010) 11234-11239
Huaidong Jiang, Changyong Song, ChienChun Chen, Rui Xu, Kevin S. Raines, Benjamin P. Fahimian, ChienHung Lu, TingKuo Lee, Akio Nakashima, Jun Urano, Tetsuya Ishikawa, Fuyuhiko Tamanoi, Jianwei Miao

18021
High-Resolution Projection Image Reconstruction of Thick Objects by Hard X-ray Diffraction Microscopy
Physical Review B, **82** (2010) 214102
Yukio Takahashi, Yoshinori Nishino, Ryosuke Tsutsumi, Nobuyuki Zettsu, Eiichiro Matsubara, Kazuto Yamauchi, Tetsuya Ishikawa

18027
Elemental Mapping of Frozen Hydrated Cells with Cryo-scanning X-ray Fluorescence Microscopy
X-Ray Spectrometry, **39** (2010) 260-266
Satoshi Matsuyama, Mari Shimura, Masaki Fujii, Kazuhiro Maeshima, Hirokatsu Yumoto, Hidekazu Mimura, Yasuhisa Sano, Makina Yabashi, Yoshinori Nishino, Kenji Tamasaku, Yukito Ishizaka, Tetsuya Ishikawa, Kazuto Yamauchi

18028
One-dimensional Wolter Optics with a Sub-50-nm Spatial Resolution
Optics Letters, **35** (2010) 3583-3585
Satoshi Matsuyama, Toshiyuki Wakioka, Naotaka Kidani, Takashi Kimura, Hidekazu Mimura, Yasuhisa Sano, Yoshinori Nishino, Makina Yabashi, Kenji Tamasaku, Tetsuya Ishikawa, Kazuto Yamauchi

BL44B2

18023
Development of an in-situ Structure/Photo-Absorption Coincident Measurement System for Precise Structure-Optical Pproperty Relationship Research at SPring-8

AIP Conference Proceedings, **1234** (2010) 256-259
Jungeun Kim, Kenichi Kato, Yutaka, Moritomo, Masaki Takata

18593
Control of Interpenetration for Tuning Structural Flexibility Influences Sorption Properties
Angewandte Chemie International Edition, **49** (2010) 7660-7664
Sareeya Bureekaew, Hiroshi Sato, Ryotaro Matsuda, Yoshiki Kubota, Raita Hirose, Jungeun Kim, Kenichi Kato, Masaki Takata, Susumu Kitagawa

18600
Use of Side-Chain Incompatibility for Tailoring Long-Range p/n Heterojunctions: Photoconductive Nanofibers Formed by Self-Assembly of an Amphiphilic Donor-Acceptor Dyad Consisting of Oligothiophene and Perylenediimide
Chemistry an Asian Journal, **5** (2010) 1566-1572
Wei-Shi Li, Akinori Saeki, Yohei Yamamoto, Takanori Fukushima, Shu Seki, Noriyuki Ishii, Kenichi Kato, Masaki Takata, Takuzo Aida

18615
Columnar Liquid Crystal with a Spontaneous Polarization along the Columnar Axis
Journal of the American Chemical Society, **132** (2010) 8530-8531
Daigo Miyajima, Fumito Araoka, Hideo Takezoe, Jungeun Kim, Kenichi Kato, Masaki Takata, Takuzo Aida

18616
Shape-Directed Assembly of a 'Macromolecular Barb' into Nanofibers: Stereospecific Cyclopolymerization of Isopropylidene Diallylmalonate
Journal of the American Chemical Society, **132** (2010) 3292-3294
Yasunao Miyamura, Kazushi Kinbara, Yohei Yamamoto, Vakayil Praveen, Kenichi Kato, Masaki Takata, Atsushi Takano, Yushu Matsushita, Eunji Lee, Myongsoo Lee, Takuzo Aida

BL45XU

16393
Reconstitution of the Muscle Thin Filament from Recombinant Troponin Components and the Native Thin Filaments
Analytical Biochemistry, **399** (2010) 299-301
Fumiko Matsumoto, Shungo Deshimaru, Toshiro Oda, Satoru Fujiwara

16668
Crystallization of Poly(butylene terephthalate) from the Glass
Macromolecules, **43** (2010) 375-383
Takashi Konishi, Yoshihisa Miyamoto

16773
Determination of Lamellar Twisting Manner in a Banded Spherulite with Scanning Microbeam X-ray Scattering
Polymer, **51** (2010) 1632-1638
Tatsuya Kikuduki, Yuya Shinohara, Yoshinobu Nozue, Kazuki Ito, Yoshiyuki Amemiya

16899
A Myopathy-linked Tropomyosin Mutation Severely Alters Thin Filament Conformational Changes during Activation
Proceedings of the National Academy of Sciences of the United States of America, **107** (2010) 9807-9812
Julien Ochala, Hiroyuki Iwamoto, Naoto Yagi

16990
Correlation of Structure Changes in the water-Induced Phase Transitions pf Poly(ethylenimine) Viewed from Molecular, Crystal, and Higher-Order Levels As Studied by Simultaneous WAXD/SAXS/Raman Measurements
Macromolecules, **43** (2010) 402-408
Tomoko Hashida, Kohji Tashiro, Kazuki Ito, Masaki Takata, Sono Sasaki, Hiroyasu Masunaga

17000
Characterization of Water/AOT/Benzene Microemulsions during Photoreduction to Produce Silver Particles
Journal of Colloid and Interface Science, **343** (2010) 423-432
Masafumi Harada, Kenji Saijo, Naoki Sakamoto, Kazuki Ito

17001
Differences in Prion Strain Conformations Result from Non-native Interactions in a Nucleus
Nature Chemical Biology, **6** (2010) 225-230
Yumiko Ohhashi, Kazuki Ito, Brandon H. Toyama, Jonathan S. Weissman, Motomasa Tanaka

17113
Fast X-ray Recordings Reveal Dynamic Action of Contractile and Regulatory Proteins in Stretch-Activated Insect Flight Muscle
Biophysical Journal, **99** (2010) 184-192
Hiroyuki Iwamoto, Katsuaki Inoue, Naoto Yagi

17980
Quality Control of Protein Standards for Molecular Mass Determinations by Small-Angle X-ray Scattering
Journal of Applied Crystallography, **43** (2010) 237-243
Shuji Akiyama

17944
A Microbeam Small-Angle X-ray Scattering Study on Enamel Crystallites in Subsurface Lesion
Journal of Physics: Conference Series, **247** (2010) 012024
Naoto Yagi, Noboru Ohta, Tatsuhito Matsuo, Tomoko Tanaka, Yoshinobu Terada, Hiroshi Kamasaka, Takashi Kometani

18008
Structure of Bacterial Cellulose Synthase Subunit D Octamer with Four Inner Passageways
Proceedings of the National Academy of Sciences of the United States of America, **107** (2010) 17957-17961
Song-Qing Hu, Yong-Gui Gao, Kenji Tajima, Naoki Sunagawa, Yong Zhou, Shin Kawano, Takaaki Fujiwara, Takanori Yoda, Takanori Shimura, Yasuharu Satoh, Masanobu Munekata, Isao Tanaka, Min Yao

18192
Mechanism of Silver Particle Formation during Photoreduction Using In Situ Time-Resolved SAXS Analysis
Langmuir, **26** (2010) 17896-17905
Masafumi Harada, Etsuko Katagiri

18252
Polymeric Structures and Dynamic Properties of the Bacterial Actin AlfA
Journal of Molecular Biology, **397** (2010) 1031-1041
David Popp, Akihiro Narita, Umesh Ghoshdastider, Kayo Maeda, Yuichiro Maeda, Toshiro Oda, Tetsuro Fujisawa, Hirofumi Onishi, Kazuki Ito, Robert C. Robinson

その他の成果
Accelerator

17076
Development of SPring-8 Vacuum System
Vacuum, **84** (2010) 738-742
Masazumi Shouji, Masaya Ooishi, Tetsuhiko Yorita, Yukiko Taniuchi, Yuichi Okayasu, Hiroto Yonehara, Haruo Ohkuma

17077
Investigation of an Aluminum Flange with an Electron Beam Modified Seal Edge
Journal of the Vacuum Society of Japan, **53** (2010) 140-143
Masaya Ooishi, Masazumi Shouji, Yuichi Okayasu, Yukiko Taniuchi, Hiroto Yonehara, Haruo Ohkuma

XFEL

18225
Transverse Envelope Analysis for Accelerating Relativistic Electron Beams in a Linear Accelerator as a Photon Source
Nuclear Instruments and Methods in Physics Research Section A, **624** (2010) 65-72
Toru Hara, Kazuaki Togawa, Hitoshi Tanaka

18353
Investigation of the Interaction of Xenon Cluster with Intense EUV-FEL Pulses Using Pulsed Cluster Beam Source and Momentum Imaging Spectrometer
Journal of Electron Spectroscopy and Related Phenomena, **181** (2010) 125-128
Kiyonobu Nagaya, Hiroshi Iwayama, Hiroshi Murakami, Makoto Yao, Hironobu Fukuzawa, Koji Motomura, Kiyoshi Ueda, Norio Saito, Luts Foucar, Mitsuru Nagasono, Atsushi Higashiya, Makina Yabashi, Tetsuya Ishikawa, Hiroaki Kimura, Haruhiko Ohashi

18355
Photoelectron Spectroscopy of Sequential Three-Photon Double Ionization of Ar Irradiated by EUV Free-Electron Laser Pulses
Journal of Physics B: Atomic, Molecular and Optical Physics, **43** (2010) 111001
Hironobu Fukuzawa, Elena Gryzlova, Koji Motomura, Ayako Yamada, Kiyoshi Ueda, Alexei N. Grum-Grzhimailo, Srine I. Strakhova, Kiyonobu Nagaya, Akinori Sugishima, Yuuri Mizoguchi, Hiroshi Iwayama, Makoto Yao, Norio Saito, Paolo Piseri, Tommaso Mazza, Michele Devetta, Marcello Coreno, Mitsuru Nagasono, Kensuke Tono, Makina Yabashi, Tetsuya Ishikawa, Haruhiko Ohashi, Hiroaki Kimura, Tadashi Togashi, Yasunori Senba

18379
Ion-Ion Coincidence Studies on Multiple Ionizations of N_2 and O_2 Molecules Irradiated by Extreme Ultraviolet Free-Electron Laser Pulses
The Journal of Chemical Physics, **132** (2010) 204305
Ayako Yamada, Hironobu Fukuzawa, Koji Motomura, Xiao-Jing Liu, Luts Foucar, Moritz Kurka, Misaki Okunishi, Kiyoshi Ueda, Norio Saito, Hiroshi Iwayama, Kiyonobu Nagaya,

Akinori Sugishima, Makoto Yao, Artem Rudenko, Kai-Uwe Kühnel, Hiroshi Murakami, Ullrich Joachim, Feife Raimund, Achim Czasch, Reinhard Dörner, Mitsuru Nagasono, Atsushi Higashiya, Makina Yabashi, Tetsuya Ishikawa, Haruhiko Ohashi, Tadashi Togashi

18387

Inhomogeneous Charge Redistribution in Xe Clusters Exposed to an Intense Extreme Ultraviolet Free Electron Laser

Journal of Physics B: Atomic, Molecular and Optical Physics, **43** (2010) 161001

Hiroshi Iwayama, Akinori Sugishima, Kiyonobu Nagaya, Makoto Yao, Hironobu Fukuzawa, Koji Motomura, Xiao-Jing Liu, Ayako Yamada, ChenChun Wang, Kiyoshi Ueda, Norio Saito, Mitsuru Nagasono, Kensuke Tono, Makina Yabashi, Tetsuya Ishikawa, Haruhiko Ohashi, Hiroaki Kimura, Tadashi Togashi

18388

Response-Time Improved Hydrothermal-Method-Grown ZnO Scintillator for XFEL Timing-Observation

Optical Materials, **32** (2010) 1305-1308

Kohei Yamanoi, Kohei Sakai, Tomoharu Nakazato, Estacio Elmer, Toshihiko Shimizu, Nobuhiko Sarukura, Ehrentraut Dirk, Tsuguo Fukuda, Mitsuru Nagasono, Tadashi Togashi, Shinichi Matsubara, Kensuke Tono, Makina Yabashi, Hiroaki Kimura, Haruhiko Ohashi, Tetsuya Ishikawa

18390

Multiphoton Double Ionization of Ar in Intense Extreme Ultraviolet Laser Fields Studied by Shot-by-Shot Photoelectron Spectroscopy

Physical Review Letters, **105** (2010) 133001

Yasumasa Hikosaka, Mizuho Fushitani, Akitaka Matsuda, Chien-Ming Tseng, Akiyoshi Hishikawa, Eiji Shigemasa, Mitsuru Nagasono, Kensuke Tono, Tadashi Togashi, Haruhiko Ohashi, Hiroaki Kimura, Yasunori Senba, Makina Yabashi, Tetsuya Ishikawa

18391

Femtosecond Snapshot Holography with Extended Reference Using Extreme Ultraviolet Free-Electron Laser

Applied Physics Express, **3** (2010) 102701

Yoshinori Nishino, Yoshihito Tanaka, Makoto Okada, Motohiro Okaya, Yoshihito Uozaki, Kimihiko Nozaki, Shinji Matsui, Makina Yabashi, Mitsuru Nagasono, Kensuke Tono, Hiroaki Kimura, Haruhiko Ohashi, Tetsuya Ishikawa, Ei-ichiro Matsubara

18392

Measurement of the Single-Shot Pulse Energy of a Free Electron Laser Using a Cryogenic Radiometer

Metrologia, **47** (2010) 518-521

Masahiro Kato, Norio Saito, Kai Tiedtke, Pavle N. Juranic, Andrey A. Sorokin, Mathias Richter, Yuichiro Morishita, Takahiro Tanaka, Ulf Jastrow, Udo Kroth, Hendrik Schoppe, Mitsuru Nagasono, Makina Yabashi, Kensuke Tono, Tadashi Togashi, Hiroaki Kimura, Haruhiko Ohashi, Tetsuya Ishikawa