

- [29] "Momentum Dependence of Charge Excitations in the Electron-Doped Superconductor $\text{Nd}_{1.85}\text{Ce}_{0.15}\text{CuO}_4$: A Resonant Inelastic X-Ray Scattering Study"
 K. Ishii, K. Tsutsui, Y. Endoh, T. Tohyama, S. Maekawa, M. Hoesch, K. Kuzushita, M. Tsubota, T. Inami, J. Mizuki, Y. Murakami, K. Yamada
Physical Review Letters, **94**, (2005), 207003

BL14B1

Refereed Papers

[1998]

- [1] "An Additional Axis for the Surface X-Ray Diffractometer"
 M. Takahasi, J. Mizuki
Journal of Synchrotron Radiation, **5**, (1998), 893-895
- [2] "SPring-8 Beamlines for High Pressure Science with Multi-Anvil Apparatus"
 W. Utsumi, K. Funakoshi, S. Urakawa, M. Yamakata, K. Tsuji, H. Konishi, O. Shimomura
The Review of High Pressure Science and Technology, **7**, (1998), 1484-1486

[2000]

- [3] "A First-Order Liquid-Liquid Phase Transition in Phosphorus"
 Y. Katayama, T. Mizutani, W. Utsumi, O. Shimomura, M. Yamakata, K. Funakoshi
Nature, **403**, (2000), 170-173
- [4] "Second-Order Phase Transition of FeS under High Pressure and Temperature"
 K. Kusaba, W. Utsumi, M. Yamakata, O. Shimomura, Y. Syono
Journal of Physics and Chemistry of Solids, **61**, (2000), 1483-1487
- [5] "Single Crystal Growth of the High Pressure Phase of $(\text{VO})_2\text{P}_2\text{O}_7$ at 3 GPa"
 T. Saito, T. Terashima, M. Azuma, M. Takano, T. Goto, H. Ohta, W. Utsumi, P. Bordet, D. C. Johnston
Journal of Solid State Chemistry, **153**, (2000), 124-131
- [6] "High Energy X-Ray Study of the Structure of Vitreous B_2O_3 "
 K. Suzuya, Y. Yoneda, S. Kohara, N. Umesaki
Physics and Chemistry of Glasses, **41**, (2000), 282-285

[2001]

- [7] "Single Crystal Growth of CaFeO_3 at High Pressure"
 S. Ishiwata, M. Azuma, T. Saito, S. Kawasaki, M. Takano
粉体および粉末冶金 (Journal of the Japan Society of Powder and Powder Metallurgy), **48**, (2001), 715-718
- [8] "X-Ray Diffraction Study on Structural Change in Liquid Selenium under High Pressure"
 Y. Katayama, T. Mizutani, W. Utsumi, O. Shimomura, K. Tsuji
Physica Status Solidi B, **223**, (2001), 401-404
- [9] "High-Energy X-Ray Diffraction Studies of Non-Crystalline Materials"
 H. Ohno, S. Kohara, N. Umesaki, K. Suzuya
Journal of Non-Crystalline Solids, **293-295**, (2001), 125-135
- [10] "Structural Changes of Quartz-Type Crystalline and Vitreous GeO_2 under Pressure"
 O. Ohtaka, A. Yoshiasa, H. Fukui, k. Murai, M. Okube, Y. Katayama, W. Utsumi, Y. Nishihata
Journal of Synchrotron Radiation, **8**, (2001), 791-793
- [11] "Fixed-Height Exit Bender of Synchrotron X-Rays above 40 keV"
 Y. Yoneda, N. Matsumoto, Y. Furukawa, T. Ishikawa
Journal of Synchrotron Radiation, **8**, (2001), 18-21
- [12] "High Energy Synchrotron X-Ray Focusing by Fixed Exit Bender"
 Y. Yoneda, N. Matsumoto, Y. Furukawa, T. Ishikawa
Nuclear Instruments and Methods in Physics Research Section A, **467-468**, (2001), 370-372

[2002]

- [13] "Single-Crystal Growth of Transition Metal Oxides at High Pressures of Several GPa"
 M. Azuma, T. Saito, S. Ishiwata, H. Yoshida, M. Takano, Y. Kohsaka, H. Takagi, W. Utsumi
Journal of Physics: Condensed Matter, **14**, (2002), 11321-11324

- [14] "X-Ray Reflectivity and Diffraction Studies on Lipid and Lipopolymer Langmuir-Blodgett Films under Controlled Humidity"
 J. Bolze, M. Takahasi, J. Mizuki, T. Baumgart, W. Knoll
Journal of the American Chemical Society, **124**, (2002), 9412-9421
- [15] "In-situ Observation of a First-Order Liquid-Liquid Transition in Phosphorus"
 Y. Katayama,
Journal of Non-Crystalline Solids, **312-314**, (2002), 8-14
- [16] "Evidence for the Diffusion of Au Atoms into the Te UPD Layer Formed on a Au(111) Substrate"
 H. Kawamura, M. Takahasi, N. Hojo, M. Miyake, K. Murase, K. Tamura, K. Uosaki, Y. Awakura, J. Mizuki, E. Matsubara
Journal of the Electrochemical Society, **149**, (2002), C83-C88
- [17] "Growth of Na-Doped $\text{Ca}_2\text{CuO}_2\text{Cl}_2$ Single Crystals under High Pressures of Several GPa"
 Y. Kohsaka, M. Azuma, I. Yamada, T. Sasagawa, T. Hanaguri, M. Takano, H. Takagi
Journal of the American Chemical Society, **124**, (2002), 12275-12278
- [18] "A Novel Spectroelectrochemical Cell for in situ Surface X-ray Scattering Measurements of Single Crystal Disk Electrodes"
 T. Kondo, K. Tamura, M. Takahashi, J. Mizuki, K. Uosaki
Electrochimica Acta, **47**, (2002), 3075-3080
- [19] "In situ EXAFS Study on GeS_2 Glass under High-Pressure"
 K. Miyauchi, J. Qiu, M. Shojiya, Y. Kawamoto, N. Kitamura, K. Fukumi, Y. Katayama, Y. Nishihata
Solid State Communications, **124**, (2002), 189-193
- [20] "Self-Regeneration of a Pd-Perovskite Catalyst for Automotive Emissions Control"
 Y. Nishihata, J. Mizuki, T. Akao, H. Tanaka, M. Uenishi, M. Kimura, T. Okamoto, N. Hamada
Nature, **418**, (2002), 164-167
- [21] "XAFS Study of GeO_2 Glass under Pressure"
 O. Ohtaka, A. Yoshiasa, H. Fukui, K. Murai, M. Okube, H. Takebe, Y. Katayama, W. Utsumi
Journal of Physics: Condensed Matter, **14**, (2002), 10521-10524
- [22] "In situ X-Ray Observations of the Decomposition of Brucite and the Graphite-Diamond Conversion in Aqueous Fluid at High Pressure and Temperature"
 T. Okada, W. Utsumi, H. Kaneko, M. Yamakata, O. Shimomura
Physics and Chemistry of Minerals, **29**, (2002), 439-445
- [23] "In situ X-Ray Observations of the Diamond Formation Process in the $\text{C}-\text{H}_2\text{O}-\text{MgO}$ System"
 T. Okada, W. Utsumi, O. Shimomura
Journal of Physics: Condensed Matter, **14**, (2002), 11331-11335
- [24] "Anharmonicity of Gold under High-Pressure and High-Temperature"
 M. Okube, A. Yoshiasa, O. Ohtaka, H. Fukui, Y. Katayama, W. Utsumi
Solid State Communications, **121**, (2002), 235-239
- [25] "Anharmonic Effective Pair Potentials of Gold under High Pressure and High Temperature"
 M. Okube, A. Yoshiasa, O. Ohtaka, H. Fukui, Y. Katayama, W. Utsumi
Journal of Physics: Condensed Matter, **14**, (2002), 11511-11515
- [26] "High-Pressure Science with a Multi-Anvil Apparatus at SPring-8"
 W. Utsumi, K. Funakoshi, Y. Katayama, M. Yamakata, T. Okada, O. Shimomura
Journal of Physics: Condensed Matter, **14**, (2002), 10497-10504
- [27] "NO Reduction with CO in the Presence of O_2 over $\text{Cu}/\text{Al}_2\text{O}_3$ (3) - Structural Analysis of Active Species by Means of XAFS and UV/VIS/NIR Spectroscopy"
 T. Yamamoto, T. Tanaka, S. Suzuki, R. Kuma, K. Teramura, Y. Kou, T. Funabiki, S. Yoshida
Topics in Catalysis, **18**, (2002), 113-118
- [28] "Structural Study of Semiconductive CdTe-ZnTe Alloy by High-Energy X-Ray Diffraction"
 Y. Yoneda, N. Matsumoto, K. Suzuya, S. Kohara, J. Mizuki
Ferroelectrics, **268**, (2002), 277-282
- [2003]
- [29] "Charge-Ordered State in Single-Crystalline CaFeO_3 Thin Film Studied by X-ray Anomalous Diffraction"
 T. Akao, Y. Azuma, M. Usuda, Y. Nishihata, J. Mizuki, N. Hamada, N. Hayashi, T. Terashima, M. Takano
Physical Review Letters, **91**, (2003), 156405

- [30] "Single Crystal Growth of $\text{Ca}_{2-x}\text{Na}_x\text{CuO}_2\text{Cl}_2$ and Related Compounds at High Pressures of Several GPa"
 M. Azuma, T. Saito, I. Yamada, Y. Kohsaka, H. Takagi, M. Takano
Journal of Low Temperature Physics, **131**, (2003), 671-679
- [31] "Structural Transformations in Liquid, Crystalline, and Glassy B_2O_3 under High Pressure"
 V. Brazhkin, Y. Katayama, Y. Inamura, M. V. Kondrin, A. Lyapin, S. V. Popova, R. N. Voloshin
JETP Letters, **78**, (2003), 393-397
- [32] "X-ray Structural Studies on Elemental Liquids under High Pressures"
 Y. Katayama, K. Tsuji
Journal of Physics: Condensed Matter, **15**, (2003), 6085-6103
- [33] "Anharmonicity of Platinum under High Pressure and High Temperature"
 M. Okube, A. Yoshiasa, O. Ohtaka, Y. Katayama
High Pressure Research, **23**, (2003), 247-251
- [34] "Congruent Melting of Gallium Nitride at 6 GPa and Its Application to Single-Crystal Growth"
 W. Utsumi, H. Saitoh, H. Kaneko, T. Watanuki, K. Aoki, O. Shimomura
Nature Materials, **2**, (2003), 735-738
- [2004]
- [35] "Transformations in the Intermediate-Range Structure of SiO_2 Glass under High Pressure and Temperature"
 Y. Inamura, Y. Katayama, W. Utsumi, K. Funakoshi
Physical Review Letters, **93**, (2004), 015501
- [36] "Macroscopic Separation of Dense Fluid Phase and Liquid Phase of Phosphorus"
 Y. Katayama, Y. Inamura, T. Mizutani, M. Yamakata, W. Utsumi, O. Shimomura
Science, **306**, (2004), 848-851
- [37] "Pressure-Induced Sharp Coordination Change in Liquid Germanate"
 O. Ohtaka, H. Arima, H. Fukui, W. Utsumi, Y. Katayama, A. Yoshiasa
Physical Review Letters, **92**, (2004), 155506
- [38] "Kinetics of the Graphite -Diamond Transformation in Aqueous Fluid Determined by in-situ X-ray Diffractions at High Pressures and Temperatures"
 T. Okada, W. Utsumi, H. Kaneko, V. Turkevich, N. Hamaya, O. Shimomura
Physics and Chemistry of Minerals, **31**, (2004), 261-268
- [39] "*In situ* X-Ray Diffraction of Graphite-Diamond Transformation using Various Catalysts under High Pressures and High Temperatures"
 W. Utsumi, T. Okada, T. Taniguchi, K. Funakoshi, T. Kikegawa, N. Hamaya, O. Shimomura
Journal of Physics: Condensed Matter, **16**, (2004), S1017 -S1026

BL22XU

Refereed Papers

[2004]

- [1] "Application of a Portable Pulsed Magnet to Synchrotron Radiation Experiments"
 Y. Matsuda, Y. Ueda, H. Nojiri, T. Takahashi, T. Inami, K. Oowada, Y. Murakami, T. Arima
Physica B, **346-347**, (2004), 519-523

BL23SU

Refereed Papers

[1998]

- [1] "Construction of the JAERI Soft X-Ray Beamline for Actinide Material Sciences"
 T. Nakatani, Y. Saitoh, Y. Teraoka, T. Okane, A. Yokoya
Journal of Synchrotron Radiation, **5**, (1998), 536-538
- [2] "Soft X-Ray Beamline Specialized for Actinides and Radioactive Materials Equipped with a Variably Polarizing Undulator"
 A. Yokoya, T. Sekiguchi, Y. Saitoh, T. Okane, T. Nakatani, T. Shimada, H. Kobayashi, M. Takao, Y. Teraoka, Y. Hayashi, S. Sasaki, Y. Miyahara, T. Harami, T. Sasaki
Journal of Synchrotron Radiation, **5**, (1998), 10-16