

- [213] "Study on Operating Point Controlled Superconductive TES Microcalorimeters"  
N. Zen  
Doctor Thesis (The University of Tokyo), (2007), 1-131  
[2008]
- [214] "Factors Controlling Electron Transport Properties in Transparent Amorphous Oxide Semiconductors"  
H. Hosono, K. Nomura, Y. Ogo, T. Uruga, T. Kamiya  
Journal of Non-Crystalline Solids, 354, (2008), 2796-2800
- [215] "Transient Intermediates from Mn(salen) with Sterically Hindered Mesityl Groups: Interconversion between Mn<sup>IV</sup>-Phenolate and Mn<sup>III</sup>-Phenoxy Radicals as an Origin for Unique Reactivity"  
T. Kurahashi  
Inorganic Chemistry, 47, (2008), 1674-1686
- [216] "Effect of Post-Calcination on Photocatalytic Activity of (Ga<sub>1-x</sub>Zn<sub>x</sub>)(N<sub>1-x</sub>O<sub>x</sub>) Solid Solution for Overall Water Splitting under Visible Light"  
K. Maeda, K. Teramura, K. Domen  
Journal of Catalysis, 254, (2008), 198-204
- [217] "Abiotic Reduction of Antimony(V) by Green Rust (Fe<sub>4</sub>(II)Fe<sub>2</sub>(III)(OH)<sub>12</sub>SO<sub>4</sub> 3H<sub>2</sub>O)"  
S. Mitsunobu, Y. Takahashi, Y. Sakai  
Chemosphere, 70, (2008), 942-947
- [218] "Promotion of Oxidation and Reduction of Rh Species by Interaction of Rh and CeO<sub>2</sub> over Rh/CeO<sub>2</sub>/SiO<sub>2</sub>"  
T. Miyazawa, K. Okumura, K. Kunimori, K. Tomishige  
The Journal of Physical Chemistry C, 112, (2008), 2574-2583
- [219] "Catalytic Conversion of Biomass: Catalyst Development and the Elucidation of the Reaction Mechanism"  
T. Miyazawa  
Doctor Thesis (University of Tsukuba), (2008), 1-173
- [220] "Catalytic Performance and QXAFS Analysis of Ni Catalysts Modified with Pd for Oxidative Steam Reforming of Methane"  
Y. Mukainakano, K. Yoshida, K. Okumura, K. Kunimori, K. Tomishige  
Catalysis Today, 132, (2008), 101-108
- [221] "Local Structure of TiO<sub>2</sub>-Derived Nanotubes Prepared by the Hydrothermal Process"  
A. Nakahira, T. Kubo  
The Journal of Physical Chemistry C, 112, (2008), 1658-1662
- [222] "Phase Transition and Extended X-ray Absorption Fine Structure of Melt-Spun Amorphous Fe<sub>100-x</sub>Y<sub>x</sub> Alloys"  
H. Takano, K. Yano, I. Nakai  
Journal of Magnetism and Magnetic Materials, 320, (2008), 1503-1511
- [223] "Structural Analysis of Tungsten Zirconium Oxide Catalyst by W K-edge and L<sub>1</sub>-edge XAFS"  
T. Yamamoto, A. Orita, T. Tanaka  
X-Ray Spectrometry, 37, (2008), 226-231

## BL02B1

**Refereed Journals**

[1998]

- [1] "First Results from the Crystal Structure Analysis Beamline at SPring-8"  
Y. Noda, K. Ohshima, H. Toraya, K. Tanaka, H. Terauchi, H. Maeta, H. Konishi  
Journal of Synchrotron Radiation, 5, (1998), 485-487
- [2] "Neutron and Synchrotron Radiation Studies of the Phase Transition of *h*-BaTiO<sub>3</sub>"  
Y. Noda, K. Akiyama, T. Shobu, Y. Kuroiwa, H. Nakao, Y. Morii, H. Yamaguchi  
Ferroelectrics, 217, (1998), 1-7

[1999]

- [3] "Diffuse Scattering due to Anisotropic Phonon Softening in Ferroelastic Compounds NdNbO<sub>4</sub> and LaNbO<sub>4</sub>"  
Y. Kuroiwa, S. Aoyagi, T. Shobu, K. Nozawa, S. Tsunekawa, Y. Noda  
Japanese Journal of Applied Physics, 38, (1999), 600-603
- [4] "Phason Strain in Al<sub>70</sub>Ni<sub>10</sub>Co<sub>20</sub> Decagonal Quasicrystal"  
Y. Matsuo, K. Yamamoto, K. Ohshima, Y. Ishii  
Materials Research Society Symposia Proceedings, 553, (1999), 183-187
- [5] "High-Resolution Powder Diffractometry to Study the Phase Transition of *h*-BaTiO<sub>3</sub>"  
Y. Noda, K. Akiyama, T. Shobu, Y. Kuroiwa, H. Yamaguchi  
Japanese Journal of Applied Physics, 38, (1999), 73-76

- [6] "The MEM Charge Density Study of  $Rb_2CsC_{60}$ ,  $K_2RbC_{60}$ , and  $Li_2CsC_{60}$  by Synchrotron Radiation Powder Method"  
M. Takata, N. Machida, E. Nishibori, B. Umeda, M. Sakata, K. Tanigaki, M. Kosaka, I. Hirosawa, J. Mizuki  
Japanese Journal of Applied Physics, **38**, (1999), 122-125
- [7] "Diffuse X-Ray Scattering Study of Defect Structure in Ni and Dilute Ni Alloys Irradiated with High-Energy Ions"  
H. Yuya  
Doctor Thesis (Nagoya University), (1999)  
[2000]
- [8] "Synthesis and Synchrotron Radiation Structure Analysis of Tetra-Dithiopropanato-Diplatinum (II) with Infinite Linear Chain Structure"  
M. Mitsumi, T. Yoshinari, Y. Ozawa, K. Toriumi  
Molecular Crystals and Liquid Crystals, **342**, (2000), 127-132
- [9] "Synchrotron X-Ray Diffraction Study on the Verwey Transition in Magnetite"  
S. Sasaki, T. Toyoda, M. Tanaka, Y. Noda, T. Shobu, N. Ikeda  
Ferrites: Proceedings of the Eighth International Conference on Ferrites (ICF-8), (2000), 135-139
- [10] "X-Ray Diffuse Scattering Study on Charge-Localized States of  $Pr_{1-x}Ca_xMnO_3$  ( $x=0.35, 0.4, 0.5$ )"  
S. Shimomura, T. Tonegawa, K. Tajima, N. Wakabayashi, N. Ikeda, T. Shobu, Y. Noda, Y. Tomioka, Y. Tokura  
Physical Review B, **62**, (2000), 3875-3878  
[2001]
- [11] "Metallic Behavior and Periodical Valence-Ordering in a MMX Chain Compound,  $Pt_2(EtCS_2)_4I$ "  
M. Mitsumi, T. Murase, H. Kishida, T. Yoshinari, Y. Ozawa, K. Toriumi, T. Sonoyama, H. Kitagawa, T. Mitani  
Journal of the American Chemical Society, **123**, (2001), 11179-11192
- [12] "Structural Aspects of  $NaV_2O_5$  under High Pressure"  
K. Ohwada  
Doctor Thesis (The University of Tokyo), (2001)
- [13] ""Devil's Staircase"-Type Phase Transition of  $NaV_2O_5$  under High Pressure"  
K. Ohwada, Y. Fujii, N. Takesue, M. Isobe, Y. Ueda, H. Nakao, Y. Wakabayashi, Y. Murakami, K. Ito, Y. Amemiya, H. Fujihisa, K. Aoki, T. Shobu, Y. Noda, N. Ikeda  
Physical Review Letters, **87**, (2001), 086402
- [14] "Structure Analysis of a Sodium Paradodecatungstate"  
T. Ozeki  
Chemistry Letters, (2001), 266-267
- [15] "X-Ray Diffuse Scattering from  $(Nd_{1-y}Sm_y)_{1-x}Sr_xMnO_3$  and  $Pr_{1-x}Ca_xMnO_3$ "  
S. Shimomura, T. Tonegawa, K. Torashima, K. Tajima, N. Wakabayashi, H. Kuwahara, Y. Tomioka, Y. Tokura  
International Symposium on Physics in Local Lattice Distortions (AIP Conference Proceedings 554), **CP554**, (2001), 437-441
- [16] "Imaging of Electron Density Distribution of CeP Under High Pressure by Single Crystal SR X-Ray Experiments"  
T. Shobu, Y. Noda, K. Iwasa, A. Hannan, M. Kohgi, N. Ishimatsu, O. Shimomura  
Journal of the Physical Society of Japan, **70**, (2001), 1162-1163
- [17] "Charge Density Study of  $C_{60}$  Superconductors by MEM/Rietveld Analysis"  
M. Takata, E. Nishibori, M. Shinmura, H. Tanaka, K. Tanigaki, M. Kosaka, M. Sakata  
Materials Science and Engineering A, **A312**, (2001), 66-71
- [18] "Standard X-Ray Mirror Systems for SPring-8 Beamlines"  
T. Uruga, H. Tanida, Y. Yoneda, K. Takeshita, S. Goto, T. Ishikawa  
Nuclear Instruments and Methods in Physics Research Section A, **467-468**, (2001), 782-784
- [19] "New Diamond Anvil Cell for Single-Crystal Analysis"  
T. Yamanaka, T. Fukuda, T. Hattori, H. Sumiya  
Review of Scientific Instruments, **72**, (2001), 1458-1462  
[2002]
- [20] "Low-Temperature Studies on the Two-Dimensional Modulations in Å Kermanite-Type Crystals:  $Ca_2MgSi_2O_7$  and  $Ca_2ZnSi_2O_7$ "  
B. Bagautdinov, K. Hagiya, S. Noguchi, M. Ohmura, N. Ikeda, K. Kusaka, K. Iishi  
Physics and Chemistry of Minerals, **29**, (2002), 346-350
- [21] "Symmetry Breaking in the Metal-Insulator Transition of  $BaVS_3$ "  
T. Inami, K. Ohwada, H. Kimura, M. Watanabe, Y. Noda, H. Nakamura, T. Yamasaki, M. Shiga, N. Ikeda, Y. Murakami  
Physical Review B, **66**, (2002), 073108

- [22] "Synchrotron Radiation Structure Analyses of the Light-Induced Radical Pair of a Hexaarylbiimidazolyl Derivative. Origin of the Spin-Multiplicity Change"  
M. Kawano, Y. Ozawa, K. Matsubara, H. Imabayashi, M. Mitsumi, K. Toriumi, Y. Ohashi  
*Chemistry Letters*, **11**, (2002), 1130-1131
- [23] "Structural Phase Transition and Valence Fluctuation Observed in a New MMX Chain Compound, Pt<sub>2</sub>(n-PrCS<sub>2</sub>)<sub>4</sub>I"  
M. Mitsumi, S. Umebayashi, Y. Ozawa, K. Toriumi, H. Kitagawa, T. Mitani  
*Chemistry Letters*, (2002), 258-259
- [24] "Valence-Ordering Structures and Magnetic Behavior of Metallic MMX Chain Compounds"  
M. Mitsumi, K. Kitamura, A. Morinaga, Y. Ozawa, M. Kobayashi, K. Toriumi, Y. Iso, H. Kitagawa, T. Mitani  
*Angewandte Chemie International Edition*, **41**, (2002), 2767-2771
- [25] "X-ray Observation of 2k<sub>F</sub> and 4k<sub>F</sub> Charge Orderings in (TMTTF)<sub>2</sub>ReO<sub>4</sub> and (TMTTF)<sub>2</sub>SCN Associated with Anion"  
Y. Nogami, N. Toshikazu  
*Journal de Physique IV France*, **12**, (2002), 145-148
- [26] "Structure Determination of Polyoxotungstates Using High-Energy Synchrotron Radiation"  
T. Ozeki, N. Honma, S. Oike, K. Kusaka  
*Polyoxometalate Chemistry for Nano-Composite Design*, (2002), 225-232
- [27] "High-Energy X-Ray Synchrotron Radiation Analysis of Residual-Stress Distribution of Shot-Peened Steel"  
K. Tanaka, Y. Akiniwa, K. Suzuki, E. Yanase, K. Nishio, Y. Kusumi, K. Arai  
*Materials Science Forum*, **405-407**, (2002), 341-348
- [28] "Growth and Characterization of Bi-Based Superconducting Whiskers"  
H. Uemoto, S. Kishida, S. Kim, T. Yamashita, H. Yoshikawa, S. Fukushima, N. Ikeda  
*Singapore Journal of Physics*, **18**, (2002), 255-259
- [29] "Structural Studies of β -O<sub>2</sub> under Pressure"  
E. Uemura, Y. Akahama, H. Kawamura, T. Bihan, T. Shobu, Y. Noda, O. Shimomura  
*Journal of Physics: Condensed Matter*, **14**, (2002), 10423-10428
- [30] "The Charge Ordered State and the possible 2k<sub>F</sub>-CDW State with Fermi Surface Nesting in Organic Conductor θ -(BEDT-TTF)<sub>2</sub>MM'(SCN)<sub>4</sub> (M=Rb, Cs, M'=Zn, Co)"  
M. Watanabe, Y. Noda, Y. Nogami, K. Ohshima, H. Mori  
*Journal de Physique IV France*, **12**, (2002), Pr9-231-232
- [31] "The Successive Phase Transformation in a Co-Rich Al-Ni-Co Decagonal Phase"  
K. Yamamoto, Y. Wang, Y. Nishimura, Y. Matsuo  
*Journal of Alloys and Compounds*, **342**, (2002), 237-240
- [32] "Bonding Character of SiO<sub>2</sub> Stishovite under High- Pressures up to 30 GPa"  
T. Yamanaka, T. Nagai, K. Kittaka  
*Physics and Chemistry of Minerals*, **29**, (2002), 633-641
- [33] "Charge Density Analysis of SiO<sub>2</sub> under Pressures over 50GPa Using a New Diamond Anvil Cell for Single-Crystal Structure Analysis"  
T. Yamanaka, T. Fukuda, Y. Komatsu, H. Sumiya  
*Journal of Physics: Condensed Matter*, **14**, (2002), 10545-10551
- [34] "Residual-Stress Distribution of Shot-Peened Steel Estimated by High-Energy X-Rays from Synchrotron Radiation Source"  
E. Yanase, K. Nishio, Y. Kusumi, K. Arai, K. Suzuki, Y. Akiniwa, H. Kimachi, K. Tanaka  
*材料 (Journal of the Society of Materials Science, Japan)*, **51**, (2002), 756-763
- [35] "A Constant Incidence Angle Method to Estimate the Subsurface Distribution of Residual Stress by High-Energy X-Rays from Synchrotron Radiation Source"  
E. Yanase, K. Nishio, Y. Kusumi, K. Arai, Y. Akiniwa, K. Tanaka  
*材料 (Journal of the Society of Materials Science, Japan)*, **51**, (2002), 1429-1435  
[2003]
- [36] "Evaluation of Residual Stress Distribution in Shot-Peened Steel by Synchrotron Radiation"  
Y. Akiniwa, K. Tanaka, K. Suzuki, E. Yanase, K. Nishio, H. Okado, K. Arai  
*材料 (Journal of the Society of Materials Science, Japan)*, **52**, (2003), 764-769
- [37] "Lattice Distortion of YMn<sub>2</sub>O<sub>5</sub> at Ferroelectric Transition"  
I. Kagomiya, S. Matsumoto, K. Kohn, Y. Fukuda, T. Shobu, H. Kimura, Y. Noda, N. Ikeda  
*Ferroelectrics*, **286**, (2003), 167-174
- [38] "Fermi Surface and Low Temperature Structure in (DMET-TSeF)<sub>2</sub>Au(CN)<sub>2</sub>"  
K. Kato, K. Oshima, T. Kambe, Y. Nogami, T. Sasaki, M. Motokawa, R. Kato  
*Synthetic Metals*, **135-136**, (2003), 577-578

- [39] "Structure Analysis of Photo-Induced Triplet Phenylnitrene Using Synchrotron Radiation"  
M. Kawano, T. Takayama, H. Uekusa, Y. Ohashi, Y. Ozawa, K. Matsubara, H. Imabayashi, M. Mitsumi, K. Toriumi  
Chemistry Letters, **32**, (2003), 922-923
- [40] "Synchrotron X-ray Diffraction Study of a Charge Stripe Order in 1/8-doped  $\text{La}_{1.875}\text{Ba}_{0.125-x}\text{Sr}_x\text{CuO}_4$ "  
H. Kimura, H. Goka, M. Fujita, Y. Noda, K. Yamada, N. Ikeda  
Physical Review B, **67**, (2003), 140503(R)
- [41] "X-ray Study of Modulated Structures of  $\beta' - \text{Cu}_x\text{V}_2\text{O}_5$  ( $x=0.29, 0.39$ )"  
N. Nagao, Y. Nogami, K. Oshima, H. Yamada, Y. Ueda  
Physica B, **329-333**, (2003), 713-714
- [42] "CDW-Induced Negative Thermal Expansion in Two-Dimensional Conductor  $\eta - \text{Mo}_4\text{O}_{11}$ "  
H. Negishi, Y. Kuroiwa, H. Akamine, S. Aoyagi, A. Sawada, T. Shobu, S. Negishi, M. Sasaki  
Solid State Communications, **125**, (2003), 45-49
- [43] "Review and Prospect of Ferroelectricity and Magnetism in  $\text{YMn}_2\text{O}_5$ "  
Y. Noda, Y. Fukuda, H. Kimura, I. Kagomiya, S. Matsumoto, K. Kohn, T. Shobu, N. Ikeda  
Journal of the Korean Physical Society, **42**, (2003), S1192-S1195
- [44] "Superlattice Structural Analysis of (TTM-TTP) $\text{I}_3$  at Low Temperatures"  
Y. Nogami, T. Kambe, N. Fujimura, K. Oshima, T. Mori, T. Kawamoto  
Synthetic Metals, **135-136**, (2003), 637-638
- [45] "Photoexcited Crystallography of Diplatinum Complex by Multiple-Exposure IP Method"  
Y. Ozawa, M. Terashima, M. Mitsumi, K. Toriumi, N. Yasuda, H. Uekusa, Y. Ohashi  
Chemistry Letters, **32**, (2003), 62-63
- [46] "Ferroelectric Phase Transition in  $\text{CdTiO}_3$  Single Crystal"  
Y. Shan, H. Imoto, H. Mori, K. Tezuka, M. Ito  
Ferroelectrics, **284**, (2003), 107-112
- [47] "In-Situ Stress Measurement of Bond Coatings at High Temperature by High-Energy Synchrotron X-Rays"  
K. Suzuki, K. Yanaka, Y. Akiniwa, M. Kawamura, K. Nishino, H. Okado  
材料 (Journal of the Society of Materials Science, Japan), **52**, (2003), 756-763
- [48] "Estimation of Spalling Stress in Thermal Barrier Coatings Using High-Energy X-Rays from a Synchrotron Source"  
K. Suzuki, K. Tanaka, Y. Akiniwa  
Proceedings of International Conference on Advanced Technology in Experimental Mechanics 2003, **1**, (2003), 1-6
- [49] "Applications on High-Energy X-Rays to Stress Measurements of Thermal Barrier Coatings"  
K. Suzuki, K. Tanaka  
Textures and Microstructures, **35**, (2003), 207-217
- [50] "Structural Phase Transition in  $\theta - (\text{BEDT-TTF})_2\text{RbM}'(\text{SCN})_4$  ( $\text{M}' = \text{Zn, Co}$ )"  
M. Watanabe, Y. Noda, Y. Nogami, H. Mori, S. Tanaka  
Synthetic Metals, **133-134**, (2003), 283-285
- [51] "Evidence of the First-Order Nature of the Metal-Insulator Phase Transition in  $\lambda - (\text{BEDT-TSF})_2\text{FeCl}_4$ "  
M. Watanabe, S. Komiyama, R. Kiyanagi, Y. Noda, E. Negishi, N. Toyota  
Journal of the Physical Society of Japan, **72**, (2003), 452-453
- [52] "Non-Destructive Estimation of Residual Stress Distribution of Shot Peened Steels Based on Nonlinear Analysis of  $\sin^2\phi$  Diagrams"  
E. Yanase, K. Nishio, Y. Kusumi, K. Arai, Y. Akiniwa, K. Tanaka  
日本機械学会論文集 A編 (Transactions of the Japan Society of Mechanical Engineers, Series A), **69**, (2003), 993-1000
- [53] "Residual Stress Evaluation by X-Rays from Synchrotron Radiation Source"  
E. Yanase  
Doctor Thesis (Nagoya University), (2003)  
[2004]
- [54] "Structural Phase Transition in Two-Dimensional *kagomé* Antiferromagnet *m-N*-Methylpyridinium  $\alpha$ -nitronyl Nitroxide  $\text{BF}_4^{-} 1/3(\text{Acetone})$ "  
T. Kambe, Y. Nogami, K. Oshima, W. Fujita, K. Awaga  
Journal of the Physical Society of Japan, **73**, (2004), 796-799
- [55] "Relationship between Charge Stripe Order and Structural Phase Transitions in  $\text{La}_{1.875}\text{Ba}_{0.125-x}\text{Sr}_x\text{CuO}_4$ "  
H. Kimura, Y. Noda, H. Goka, M. Fujita, K. Yamada, M. Mizumaki, N. Ikeda, H. Ohsumi  
Physical Review B, **70**, (2004), 134512

- [56] "Studies of Unusual Magnetic and Electronic Properties of the Low-Carrier System CeP by Synchrotron X-rays"  
M. Kogi, K. Iwasa, K. Kuwahara, A. Hannan, D. Kawana, Y. Noda, T. Shobu, K. Katsumata, Y. Narumi, Y. Tabata  
*Physica B*, **345**, (2004), 55-58
- [57] "Relaxor-like Behavior in  $\lambda$ -(BETS)<sub>2</sub>FeCl<sub>4</sub> Studied by SR X-Ray Diffraction"  
S. Komiyama, Y. Noda, M. Watanabe, E. Negishi, N. Toyota  
*Journal of the Physical Society of Japan*, **73**, (2004), 2385-2388
- [58] "Rational Syntheses of Linear Chain Rhodium(I)-Semiquinonato Complexes Using Redox Reaction of Rh<sub>4</sub>(CO)<sub>12</sub> Cluster with o-Benzoquinone"  
M. Mitsumi, S. Umebayashi, Y. Ozawa, M. Tadokoro, H. Kawamura, K. Toriumi  
*Chemistry Letters*, **33**, (2004), 970-971
- [59] "Estimation of Spalling Stress in Thermal Barrier Coating using High Energy X-rays from Synchrotron"  
K. Suzuki, K. Tanaka, Y. Akiniwa, M. Kawamura, K. Nishio, H. Okado  
*日本機械学会論文集 A編 (Transactions of the Japan Society of Mechanical Engineers, Series A)*, **70**, (2004), 724-739
- [60] "Oxidization of Thermal Barrier Coatings and Spalling Stress Analyzed with Synchrotron X-Rays"  
K. Suzuki, T. Kubo, K. Tanaka, Y. Akiniwa, H. Okado  
*材料 (Journal of the Society of Materials Science, Japan)*, **53**, (2004), 734-739
- [61] "Estimation Spalling Stress in Thermal Barrier Coatings Using Hard Synchrotron X-rays"  
K. Suzuki, K. Tanaka, Y. Akiniwa  
*JSME International Journal Series A*, **47**, (2004), 318-323
- [62] "In-situ Synchrotron Measurement of Thermal Stress in Textured Copper Thin Films during Thermal Cycling"  
K. Tanaka, T. Ito, Y. Akiniwa, H. Ohta  
*材料 (Journal of the Society of Materials Science, Japan)*, **53**, (2004), 728-733
- [63] "Structural Phase Transition of  $\theta$ -(BEDT-TTF)<sub>2</sub>RbZn(SCN)<sub>4</sub> under High Pressure"  
M. Watanabe, Y. Noda, Y. Nogami, H. Mori  
*Journal of the Physical Society of Japan*, **73**, (2004), 921-925
- [64] "Synchrotron X-ray Studies of Phason and Phonon Strains in a Co-rich Al-Ni-Co Decagonal Quasicrystal"  
K. Yamamoto, Y. Wang, Y. Nishimura, N. Ikeda, Y. Matsuo  
*Materials Transactions*, **45**, (2004), 1255-1260  
[2005]
- [65] "Conclusive Determination of the Absolute Configuration of Chiral C<sub>60</sub> Fullerene *cis*-3 Bis-Adducts by X-ray Crystallography and Circular Dichroism"  
S. Kuwahara, K. Obata, K. Yoshida, T. Matsumoto, N. Harada, N. Yasuda, Y. Ozawa, K. Toriumi  
*Angewandte Chemie International Edition*, **44**, (2005), 2262-2265
- [66] "A Neutral Mixed-Valent Conducting Polymer Formed by Electron Transfer between Metal d and Ligand  $\pi$  Orbitals"  
M. Mitsumi, H. Gotoh, S. Umebayashi, Y. Ozawa, M. Kobayashi, T. Yokoyama, H. Tanaka, S. Kuroda, K. Toriumi  
*Angewandte Chemie International Edition*, **44**, (2005), 4164-4168
- [67] "Hydrogen-Bonded Networks in Organic Conductors: Crystal Structures and Electronic Properties of Charge-Transfer Salts of Tetracyanoquinodimethane with 4,4'-Biimidazolium Multiprotonated States"  
Y. Morita, T. Murata, K. Fukui, S. Yamada, K. Sato, D. Shiomi, T. Takui, H. Kitagawa, H. Yamochi, G. Saito, K. Nakatasuji  
*The Journal of Organic Chemistry*, **70**, (2005), 2739-2744
- [68] "In-situ Observation of 2212 Intergrowths at the Early Stage of the (Bi, Pb)2223 Phase Formation using Synchrotron XRD Technique"  
F. Nakao, K. Osamura  
*Superconductor Science and Technology*, **18**, (2005), 513-520
- [69] "X-ray Structural Study of Charge and Anion Orderings of TMTTF Salts"  
Y. Nogami, T. Ito, K. Yamamoto, N. Irie, S. Horita, T. Kambe, N. Nagao, K. Oshima, N. Ikeda, T. Nakamura  
*Journal de Physique IV France*, **131**, (2005), 39-42
- [70] "A New Molecular Oxide with a Pt<sub>2</sub>Mo<sub>2</sub>O<sub>8</sub> Core and Its Two Conformers"  
K. Noro, Y. Ozawa, A. Yagasaki  
*Inorganic Chemistry Communications*, **8**, (2005), 729-731
- [71] "Structural Properties and Phase Transition of Hole-Orbital-Ordered (C<sub>2</sub>H<sub>5</sub>NH<sub>3</sub>)<sub>2</sub>CuCl<sub>4</sub> Studied by Resonant and Non-Resonant X-ray Scatterings under High Pressure"  
K. Ohwada, K. Ishii, T. Inami, Y. Murakami, T. Shobu, H. Ohsumi, N. Ikeda, Y. Ohishi  
*Physical Review B*, **72**, (2005), 014123

- [72] "In-situ Measurement of Internal Stresses in Solid Oxide Fuel Cells during Thermal Cycling by Synchrotron Radiation"  
 H. Sumi, Y. Mizutani, Y. Doi, Y. Akiniwa, K. Tanaka  
 材料 (Journal of the Society of Materials Science, Japan), **54**, (2005), 440-446
- [73] "Spalling Stress in Oxidized Thermal Barrier Coatings Evaluated by X-ray Diffraction Method"  
 K. Suzuki, K. Tanaka  
 Materials Science Forum, **490-491**, (2005), 631-636
- [74] "Analysis on Residual Stress Distribution in Oxidized Thermal Barrier Coatings"  
 K. Suzuki, T. Kubo, K. Tanaka, Y. Akiniwa  
 材料 (Journal of the Society of Materials Science, Japan), **54**, (2005), 679-684
- [75] "Analysis on Residual Stress in Electron Beam-Physical Vapor Deposited Thermal Barrier Coating using Hard Synchrotron X-ray"  
 K. Suzuki, T. Kubo, S. Machiya, K. Tanaka, Y. Akiniwa  
 日本機械学会論文集 A編 (Transactions of the Japan Society of Mechanical Engineers, Series A), **71**, (2005), 1523-1529
- [76] "Measurement of Residual Stress Distribution by Strain Scanning Method using High Energy X-rays from Synchrotron Source"  
 K. Suzuki, S. Machiya, Y. Akiniwa, K. Tanaka, T. Kurimura, H. Oguma  
 日本機械学会論文集 A編 (Transactions of the Japan Society of Mechanical Engineers, Series A), **71**, (2005), 1531-1537
- [77] "Raphide Crystal Structure in Agave Tequilana Determined by X-ray Originating from Synchrotron Radiation"  
 M. Tadokoro, Y. Ozawa, M. Mitsumi, K. Toriumi, T. Ogura  
 Chemistry Letters, **34**, (2005), 236-237
- [78] "Evidence of Band-Filling Control of  $\tau$ -type Organic Conductors by Thermal Treatment"  
 H. Yoshino, T. Nakanishi, L. Li, K. Murata, D. Graf, E. Choi, James S. Brooks, Y. Nogami, George C. Papavassiliou  
 Synthetic Metals, **153**, (2005), 453-456
- [2006]
- [79] "Structure and Random Anisotropy in Single-Phase Ni Nanocrystals"  
 E. Kita, N. Tsukahara, H. Sato, K. Ota, H. Yanagihara, H. Tanimoto, N. Ikeda  
 Applied Physics Letters, **88**, (2006), 152501
- [80] "Resonant X-ray Scattering Study at Y K-edge in  $Y_{1-x}Ca_xTiO_3$ "  
 H. Nakao, S. Kodama, K. Kiyoto, Y. Murakami, M. Tsubota, F. Iga, K. Uchihira, T. Takabatake, H. Ohsumi, M. Mizumaki, N. Ikeda  
 Journal of the Physical Society of Japan, **75**, (2006), 094706
- [81] "Study on Non-destructive Measurement of Internal Distribution of Residual Stress in Materials Using High Energy Synchrotron Radiation X-rays"  
 T. Shobu  
 Doctor Thesis (Nagoya University), (2006), 1-188
- [82] "Changes of Internal Stress in Solid-Oxide Fuel Cell during Red-Ox Cycle Evaluated by in situ Measurement with Synchrotron Radiation"  
 H. Sumi, K. Ukai, M. Yokoyama, Y. Mizutani, Y. Doi, S. Machiya, Y. Akiniwa, K. Tanaka  
 Journal of Fuel Cell Science and Technology, **3**, (2006), 68-74
- [83] "Residual Stress and Deformation Characteristics of Thermal Barrier Coatings on Curved Substrate"  
 K. Suzuki, M. Kawamura, T. Shobu, K. Tanaka, Y. Akiniwa  
 材料 (Journal of the Society of Materials Science, Japan), **55**, (2006), 634-640
- [84] "Residual Stress in EB-PVD Thermal Barrier Coatings"  
 K. Suzuki, K. Tanaka, T. Shobu  
 Materials Science Forum, **524-525**, (2006), 879-884
- [85] "Charge Ordering in Organic Conductors"  
 T. Takahashi, Y. Nogami, K. Yakushi  
 Journal of the Physical Society of Japan, **75**, (2006), 051008
- [86] "*Ab initio* Reconstruction of p-type Icosahedral Zn-Mg-Ho Quasicrystal Structures"  
 H. Takakura, A. Yamamoto, Taku J. Sato, A. Tsai, Y. Ozawa, N. Yasuda, K. Toriumi  
 Philosophical Magazine, **86**, (2006), 621-627
- [87] "High-Temperature and High-Pressure *in situ* SCC Device for Synchrotron Radiation Diffraction Experiments and Application using an Austenitic Stainless Steel"  
 A. Yamamoto, S. Nakahigashi, M. Terasawa, T. Mitamura, Y. Akiniwa, T. Yamada, L. Liu, T. Shobu, H. Tsubakino  
 Journal of Synchrotron Radiation, **13**, (2006), 14-18

- [2007]
- [88] "X-ray Structures of the Tris(2,4-xylyl)phosphane and Its Trisulfonated Derivative: Molecular Architecture of a Water-soluble Sulfonated Phosphane with Propeller Chirality"  
Attila C. Bényei, H. Gulyás, Y. Ozawa, K. Kimura, K. Toriumi, T. Kégl, J. Bakos  
*Journal of Organometallic Chemistry*, **692**, (2007), 1845-1851
- [89] "Structural Relations between Two Ground States of NaV<sub>2</sub>O<sub>5</sub> under High Pressure: A Synchrotron X-ray Diffraction Study"  
K. Ohwada, Y. Fujii, J. Muraoka, H. Nakao, Y. Murakami, Y. Noda, H. Ohsumi, N. Ikeda, T. Shobu, M. Isobe, Y. Ueda  
*Physical Review B*, **76**, (2007), 094113
- [90] "Direct Observation of Field-induced Variant Transformation in Fe<sub>3</sub>Pt Using Pulsed Magnetic Field X-ray Diffraction"  
Z. Ouyang, Y. Matsuda, H. Nojiri, T. Inami, K. Ohwada, M. Tsubota, T. Sakon, T. Fukuda, T. Kakeshita  
*Journal of Applied Physics*, **102**, (2007), 113917
- [91] "Measurement of Residual Stress Distribution in Laser-Shock Peened Ti-Alloy Using Hard Synchrotron X-Rays"  
K. Suzuki, T. Shobu, K. Tanaka  
*材料 (Journal of the Society of Materials Science, Japan)*, **56**, (2007), 217-222
- [92] "Residual Stress in Zirconia Coating by EB-PVD Method"  
K. Suzuki, K. Wada, H. Matsubara, T. Shobu, M. Kawamura, K. Tanaka  
*材料 (Journal of the Society of Materials Science, Japan)*, **56**, (2007), 585-593
- [93] "Evaluation of Residual Stress Distribution and Deformation Characteristics of Thermal Barrier Coatings Using Hard Synchrotron X-rays"  
K. Suzuki, K. Tanaka  
*Journal of Neutron Research*, **15**, (2007), 165-173
- [94] "Anthracene Array-type Porous Coordination Polymer with Host-guest Charge Transfer Interactions in Excited States"  
D. Tanaka, S. Horike, M. Ohba, M. Hasegawa, Y. Ozawa, K. Toriumi, S. Kitagawa  
*Chemical Communications*, (2007), 3142-3144
- [95] "Poly(*p*-phenylene)-type Polymer Composed of an (*R,R*)-C<sub>2</sub>-symmetric Chiral Recurring Unit: Solution Behavior, Packing Structure, and Large Circular Dichroism Observed with a Film of the Polymer"  
T. Yamamoto, T. Iijima, Y. Ozawa, K. Toriumi, K. Kubota, S. Sasaki  
*Journal of Polymer Science Part A: Polymer Chemistry*, **45**, (2007), 548-552
- [2008]
- [96] "Distribution of Residual Stresses in EB-PVD Thermal Barrier Coatings"  
K. Suzuki, T. Shobu, K. Tanaka  
*Materials Science Forum*, **571-572**, (2008), 333-338
- [97] "Residual Stresses and Structure of EB-PVD Thermal Barrier Coatings Exposed at High Temperature"  
K. Suzuki, T. Shobu, K. Wada, H. Matsubara  
*日本機械学会論文集 A編 (Transactions of the Japan Society of Mechanical Engineers, Series A)*, **74**, (2008), 370-376
- [98] "In-Situ Synchrotron Measurement of Internal Stresses in Solid-Oxide Fuel Cell during Red-Ox Cycle"  
K. Tanaka, Y. Akiniwa, H. Kimura, K. Ukai, M. Yokoyama, Y. Mizutani  
*Materials Science Forum*, **571-572**, (2008), 339-344

## BL02B2

**Refereed Journals**

[2000]

- [1] "Silicon Clathrate with an *f*-Electron System"  
T. Kawaguchi, K. Tanigaki, M. Yasukawa  
*Physical Review Letters*, **85**, (2000), 3189-3192
- [2] "Ferromagnetism in Germanium Clathrate: Ba<sub>8</sub>Mn<sub>2</sub>Ge<sub>44</sub>"  
T. Kawaguchi, K. Tanigaki, M. Yasukawa  
*Applied Physics Letters*, **77**, (2000), 3438-3440
- [3] "Phase Separation and Insulator-Metal Behavior of Doped Manganites"  
A. Machida, Y. Moritomo, E. Nishibori, M. Takata, M. Sakata, K. Ohoyama, S. Mori, N. Yamamoto, A. Nakamura  
*Physical Review B*, **62**, (2000), 3883-3887