

Refereed Journals

- [1] [1998]
 "Standard Transport Channels of X-Ray Beamlines at SPring-8"
 S. Goto, M. Yabashi, H. Ohashi, H. Kimura, K. Takeshita, T. Uruga, T. Mochizuki, Y. Kohmura, M. Kuroda, M. Yamamoto, Y. Furukawa, N. Kamiya, T. Ishikawa
 Journal of Synchrotron Radiation, **5**, (1998), 1202-1205
- [2] [2001]
 "Design of the Front End for the Very Long In-Vacuum X-Ray Undulator at SPring-8"
 S. Takahashi, H. Aoyagi, T. Mochizuki, M. Oura, Y. Sakurai, A. Watanabe, H. Kitamura
 Nuclear Instruments and Methods in Physics Research Section A, **467-468**, (2001), 758-761
- [3] "Characterization of the Transverse Coherence of Hard Synchrotron Radiation by Intensity Interferometry"
 M. Yabashi, K. Tamasaku, T. Ishikawa
 Physical Review Letters, **87**, (2001), 140801
- [4] "Design of a Beamline for the SPring-8 Long Undulator Source 1"
 M. Yabashi, T. Mochizuki, H. Yamazaki, S. Goto, H. Ohashi, K. Takeshita, T. Ohata, T. Matsushita, K. Tamasaku, Y. Tanaka, T. Ishikawa
 Nuclear Instruments and Methods in Physics Research Section A, **467-468**, (2001), 678-681
- [5] "X-Ray Monochromator with an Energy Resolution of 8×10^{-9} at 14.41 keV"
 M. Yabashi, K. Tamasaku, S. Kikuta, T. Ishikawa
 Review of Scientific Instruments, **72**, (2001), 4080-4083
- [6] [2002]
 "The Brightest X-Ray Source: a Very Long Undulator at SPring-8"
 T. Hara, M. Yabashi, T. Tanaka, T. Bizen, S. Goto, Xavier M. Marechal, T. Seike, K. Tamasaku, T. Ishikawa, H. Kitamura
 Review of Scientific Instruments, **73**, (2002), 1125-1128
- [7] "Observation of Field-Induced Magnetic and Structural Transitions in an Antiferromagnet by Means of Synchrotron X-Rays"
 K. Katsumata, Y. Tabata, Stephen W. Lovesey, T. Nakamura, Y. Tanaka, S. Shimomura, Y. Narumi, T. Ishikawa, H. Kitamura, T. Hara, T. Tanaka, K. Tamasaku, M. Yabashi, S. Goto, H. Ohashi, K. Takeshita, T. Ohata, T. Matsushita, T. Bizen, I. Yamada
 Journal of Physics: Condensed Matter, **14**, (2002), L619-L623
- [8] "Measurement of X-Ray Pulse Widths by Intensity Interferometry"
 M. Yabashi, K. Tamasaku, T. Ishikawa
 Physical Review Letters, **88**, (2002), 244801
- [9] [2003]
 "High-Resolution Fourier Transform X-Ray Spectroscopy"
 K. Tamasaku, T. Ishikawa, M. Yabashi
 Applied Physics Letters, **83**, (2003), 2994-2996
- [10] "X-Ray Interferometer Using Wavefront Division"
 H. Yamazaki, T. Ishikawa
 Journal of Applied Crystallography, **36**, (2003), 213-219
- [11] [2004]
 "High Field Magnetic Phase Diagram of CeP Studied by Synchrotron Radiation X-ray Diffraction"
 A. Hannan, K. Kuwahara, D. Kawana, M. Kohgi, Y. Narumi, Y. Tabata, K. Katsumata
 Journal of Magnetism and Magnetic Materials, **272-276**, (2004), e427-e428
- [12] "Resonant Inelastic X-Ray Scattering (RIXS) of SrCuO₂"
 A. Higashiya, A. Shigemoto, S. Kasai, S. Imada, S. Suga, M. Sing, K. Changyoung, M. Yabashi, K. Tamasaku, T. Ishikawa
 Solid State Communications, **130**, (2004), 7-11
- [13] "Synchrotron X-ray Diffraction Measurements in Applied Magnetic Fields"
 K. Katsumata
 Physica B, **345**, (2004), 49-54
- [14] "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

- [15] "Observation of a Lattice Instability at the Field-induced Phase Transition of the Spin-gapped Compound $\text{Cu}_2(\text{C}_5\text{H}_{12}\text{N}_2)_2\text{Cl}_4$ "
J. E. Lorenzo, K. Katsumata, Y. Narumi, S. Shimomura, Y. Tanaka, M. Hagiwara, H. Mayaffre, C. Berthier, O. Piovesana, T. Ishikawa, H. Kitamura
Physical Review B, **69**, (2004), 220409
- [16] "Synchrotron X-ray Diffraction Studies on Magnetic Materials in High Magnetic Fields"
Y. Narumi, K. Katsumata, Y. Tanaka, T. Nakamura, S. Shimomura, Y. Tabata, S. Kimura, M. Matsuda
Physica B, **346-347**, (2004), 11-14
- [17] "The Coexistence of Magnetic Phases at the First-Order Phase Transition of a Metamagnet $\text{FeCl}_2 \cdot 2\text{H}_2\text{O}$ Studied by X-ray Diffraction"
Y. Narumi, K. Katsumata, T. Nakamura, Y. Tanaka, S. Shimomura, T. Ishikawa, M. Yabashi
Journal of Physics: Condensed Matter, **16**, (2004), L57-L63
- [18] "Synchrotron X-ray Diffraction Studies of the Incommensurate Phase of a Spin-Peierls System CuGeO_3 in Strong Magnetic Fields"
Y. Narumi, K. Katsumata, Y. Tabata, S. Kimura, Y. Tanaka, T. Nakamura, S. Shimomura, M. Matsuda, I. Harada, Y. Nishiyama, T. Ishikawa, H. Kitamura, T. Hara, T. Tanaka, K. Tamasaku, M. Yabashi, S. Goto, H. Ohashi, K. Takeshita, T. Ohata, T. Matsushita, T. Bizen
Journal of the Physical Society of Japan, **73**, (2004), 2650-2653
- [19] "Non-Resonant X-ray Bragg Diffraction by CeB_6 "
Y. Tanaka, U. Staub, Y. Narumi, K. Katsumata, V. Scagnoli, S. Shimomura, Y. Tabata, Y. Onuki
Physica B, **345**, (2004), 78-81
- [20] "Direct and Quantitative Determination of the Orbital Ordering in CeB_6 by X-ray Diffraction"
Y. Tanaka, U. Staub, K. Katsumata, Stephen W. Lovesey, J. E. Lorenzo, Y. Narumi, V. Scagnoli, S. Shimomura, Y. Tabata, Y. Onuki, Y. Kuramoto, A. Kikkawa, T. Ishikawa, H. Kitamura
Europhysics Letters, **68**, (2004), 671-677
- [21] "Intensity Interferometry for the Study of X-Ray Coherence"
M. Yabashi, K. Tamasaku, T. Ishikawa
Physical Review A, **69**, (2004), 023813
- [22] "Analysis of the Mutual Coherence Function of X-Rays Using Dynamical Diffraction"
H. Yamazaki, T. Ishikawa
Journal of Applied Crystallography, **37**, (2004), 48-51
[2005]
- [23] "Study of High-Field Magnetic Phases of the Low-Carrier-System CeP by Synchrotron Radiation X-ray Diffraction"
A. Hannan, D. Kawana, K. Kuwahara, M. Kohgi, Y. Narumi, Y. Tabata, S. Shimomura, Y. Tanaka, K. Katsumata
Journal of the Physical Society of Japan, **74**, (2005), 2301-2309
- [24] "Comprehensive Study of Resonant Inelastic X-ray Scattering (RIXS) of One-Dimensional SrCuO_2 "
A. Higashiya, S. Imada, A. Shigemoto, S. Kasai, H. Fujiwara, M. Sing, S. Suga, C. Kim, H. Eisaki, M. Yabashi, T. Ishikawa
Journal of Electron Spectroscopy and Related Phenomena, **144-147**, (2005), 685-687
- [25] "Synchrotron X-ray Diffraction Studies of $\alpha\text{-Gd}_2\text{S}_3$ "
K. Katsumata, A. Kikkawa, Y. Tanaka, S. Shimomura, S. Ebisu, S. Nagata
Journal of the Physical Society of Japan, **74**, (2005), 1598-1601
- [26] "The Giant Magneto-Volume Effect in Solid Oxygen"
K. Katsumata, S. Kimura, U. Staub, Y. Narumi, Y. Tanaka, S. Shimomura, T. Nakamura, Stephen W. Lovesey, T. Ishikawa, H. Kitamura
Journal of Physics: Condensed Matter, **17**, (2005), L235-L239
- [27] "Resonant Inelastic X-ray Scattering of Sr_2CuO_3 "
A. Shigemoto, A. Higashiya, S. Kasai, S. Imada, A. Sekiyama, A. Yamasaki, M. Yabashi, T. Ishikawa, C. Kim, M. Sing, S. Suga
Journal of Electron Spectroscopy and Related Phenomena, **144-147**, (2005), 833-835
- [28] "Charge Dynamics in Strongly Correlated One-Dimensional Cu-O Chain Systems Revealed by Inelastic X-ray Scattering"
S. Suga, S. Imada, A. Higashiya, A. Shigemoto, S. Kasai, M. Sing, H. Fujiwara, A. Sekiyama, A. Yamasaki, C. Kim, T. Nomura, J. Igarashi, M. Yabashi, T. Ishikawa
Physical Review B, **72**, (2005), 081101(R)
- [29] "Spin Density Wave and Charge Density Wave in the Kondo-lattice Compound $\text{Ce}(\text{Ru}_{1-x}\text{Rh}_x)_2\text{Si}_2$ "
Y. Tabata, T. Taniguchi, S. Kawarazaki, Y. Narumi, S. Kimura, Y. Tanaka, K. Katsumata, T. Ishikawa, U. Staub, M. Kohgi, K. Iwasa
Physica B, **359-361**, (2005), 260-262

- [30] "On a Phase Problem of High-Resolution Fourier Transform X-ray Spectroscopy"
K. Tamasaku, M. Yabashi, T. Ishikawa
Journal of Synchrotron Radiation, **12**, (2005), 696-700
- [31] "Manipulating the Multipole Moments in CeB₆ by Magnetic Fields"
Y. Tanaka, K. Katsumata, S. Shimomura, Y. Onuki
Journal of the Physical Society of Japan, **74**, (2005), 2201-2204
[2006]
- [32] "Acoustic Pulse Echoes Probed with Time-Resolved X-ray Triple-Crystal Diffractometry"
Y. Hayashi, Y. Tanaka, T. Kirimura, N. Tsukuda, E. Kuramoto, T. Ishikawa
Physical Review Letters, **96**, (2006), 115505
- [33] "Excess Coincidences of Reflected and Refracted X Rays from a Synchrotron-Radiation Beamline"
E. Ikonen, M. Yabashi, T. Ishikawa
Physical Review A, **74**, (2006), 013816
- [34] "Photon-stimulated Desorption from Chlorinated Si(111): Etching of SiCl by Picosecond-pulsed Laser Irradiation"
T. Kirimura, K. Shudo, Y. Hayashi, Y. Tanaka, T. Ishikawa, M. Tanaka
Physical Review B, **73**, (2006), 085309
- [35] "Ion Recombination in Parallel-Plate Free-Air Ionization Chambers for Synchrotron Radiation"
N. Nariyama
Physics in Medicine and Biology, **51**, (2006), 5199-5209
- [36] "X-ray Diffractometer Combining Synchrotron Radiation and Pulsed Magnetic Fields up to 40 T"
Y. Narumi, K. Kindo, K. Katsumata, M. Kawauchi, C. Broennimann, U. Staub, H. Toyokawa, Y. Tanaka, A. Kikkawa, T. Yamamoto, M. Hagiwara, T. Ishikawa, H. Kitamura
Journal of Synchrotron Radiation, **13**, (2006), 271-274
- [37] "Lattice Distortion in Antiferromagnetic CoO under High Magnetic Fields"
Y. Narumi, K. Katsumata, U. Staub, K. Kindo, M. Kawauchi, C. Broennimann, H. Toyokawa, Y. Tanaka, A. Kikkawa, T. Yamamoto, M. Hagiwara, T. Ishikawa, H. Kitamura
Journal of the Physical Society of Japan, **75**, (2006), 075001
- [38] "Scanning Tunneling Microscopy Combined with Hard X-ray Microbeam of High Brilliance from Synchrotron Radiation Source"
A. Saito, J. Maruyama, K. Manabe, K. Kitamoto, K. Takahashi, K. Takami, S. Hirotsune, Y. Takagi, Y. Tanaka, D. Miwa, M. Yabashi, M. Ishii, M. Akai-Kasai, S. Shin, T. Ishikawa, Y. Kuwahara, M. Aono
Japanese Journal of Applied Physics, **45**, (2006), 1913-1916
- [39] "Influence of Stress and Magnetic Field on the Orbital Orientations in CeB₆"
U. Staub, Y. Tanaka, K. Katsumata, A. Kikkawa, Y. Kuramoto, Y. Onuki
Journal of Physics: Condensed Matter, **18**, (2006), 11007-11012
- [40] "Direct Observation of an Incommensurate Multipolar Order in CeB₆ Doped with Pr"
Y. Tanaka, M. Sera, K. Katsumata, S. Lovesey, Y. Tabata, S. Shimomura, A. Kikkawa, F. Iga, S. Kishimoto
Journal of the Physical Society of Japan, **75**, (2006), 073702
- [41] "Incommensurate and Commensurate Quadrupole Orders in Ce_{0.7}Pr_{0.3}B₆"
Y. Tanaka, M. Sera, Y. Tabata, S. Shimomura, A. Kikkawa, K. Katsumata, F. Iga, S. Kishimoto
Physica B, **383**, (2006), 39-40
- [42] "Restoring Higher Symmetric Crystal Structure with Magnetic Field in Triangular Lattice Antiferromagnet CuFeO₂"
N. Terada, Y. Tanaka, Y. Tabata, K. Katsumata, A. Kikkawa, S. Mitsuda
Journal of the Physical Society of Japan, **75**, (2006), 113702
- [43] "Field-Induced Lattice Staircase in a Frustrated Antiferromagnet CuFeO₂"
N. Terada, Y. Narumi, K. Katsumata, T. Yamamoto, U. Staub, K. Kindo, M. Hagiwara, Y. Tanaka, A. Kikkawa, H. Toyokawa, T. Fukui, R. Kanmuri, T. Ishikawa, H. Kitamura
Physical Review B, **74**, (2006), 180404(R)
[2007]
- [44] "Time-resolved X-ray Triple-crystal Diffractometry Probing Dynamic Strain in Semiconductors"
Y. Hayashi, Y. Tanaka, T. Kirimura, N. Tsukuda, E. Kuramoto, T. Ishikawa
AIP Conference Proceedings, **879**, (2007), 1258-1261
- [45] "Spin-lattice Instability to a Fractional Magnetization State in the Spinel HgCr₂O₄"
M. Matsuda, H. Ueda, A. Kikkawa, Y. Tanaka, K. Katsumata, Y. Narumi, T. Inami, Y. Ueda, S. Lee
Nature Physics, **3**, (2007), 397-400
- [46] "Bulk Sensitive Core-level Photoemission Spectroscopy of VO₂"
T. Miyamachi, A. Sekiyama, S. Imada, H. Fujiwara, T. Saita, H. Higashimichi, T. Shirai, J. Yamaguchi, M. Tsunekawa, A. Shigemoto, A. Yamasaki, A. Higashiya, M. Yabashi, T. Muro, D. Miwa, K. Tamasaku, T. Ishikawa, K. Yoshimura, S. Suga
Journal of Magnetism and Magnetic Materials, **310**, (2007), e252-e254

- [47] "Manipulating 4f Quadrupolar Pair-interactions in TbB₂C₂ using a Magnetic Field"
A. M. Mulders, U. Staub, V. Scagnoli, Y. Tanaka, A. Kikkawa, K. Katsumata, J. M. Tonnerre
Physical Review B, **75**, (2007), 184438
- [48] "Study for Noise Reduction in Synchrotron Radiation Based Scanning Tunneling Microscopy by Developing Insulator-Coat Tip"
A. Saito, K. Takahashi, Y. Takagi, K. Nakamatsu, K. Hanai, Y. Tanaka, D. Miwa, M. Akai-kasaya, S. Shin, S. Matsui, T. Ishikawa, Y. Kuwahara, M. Aono
Surface Science, **601**, (2007), 5294-5299
- [49] "Nanoscale Surface Elemental Analysis by Synchrotron Radiation Based Scanning Tunneling Microscope"
A. Saito, H. Takahashi, Y. Takagi, K. Hanai, H. Hosokawa, K. Nakamatsu, Y. Tanaka, D. Miwa, M. Yabashi, M. Akai, S. Shin, S. Matsui, T. Ishikawa, Y. Kuwahara, M. Aono
表面科学 (Journal of the Surface Science Society of Japan), **28**, (2007), 452-458
- [50] "Recoil Effects of Photoelectrons in a Solid"
Y. Takata, Y. Kayanuma, M. Yabashi, K. Tamasaku, Y. Nishino, D. Miwa, Y. Harada, K. Horiba, S. Shin, S. Tanaka, E. Ikenaga, K. Kobayashi, Y. Senba, H. Ohashi, T. Ishikawa
Physical Review B, **75**, (2007), 233404
- [51] "Interference between Compton Scattering and X-Ray Parametric Down-Conversion"
K. Tamasaku, T. Ishikawa
Physical Review Letters, **98**, (2007), 244801
- [52] "Idler Energy Dependence of Nonlinear Diffraction in X → X + EUV Parametric Down-Conversion"
K. Tamasaku, T. Ishikawa
Acta Crystallographica Section A, **63**, (2007), 437-438
- [53] "Lattice Deformations Induced by an Applied Magnetic Field in the Frustrated Antiferromagnet HgCr₂O₄"
Y. Tanaka, Y. Narumi, N. Terada, K. Katsumata, H. Ueda, U. Staub, K. Kindo, T. Fukui, T. Yamamoto, R. Kammuri, M. Hagiwara, A. Kikkawa, Y. Ueda, H. Toyokawa, T. Ishikawa, H. Kitamura
Journal of the Physical Society of Japan, **76**, (2007), 043708
- [54] "Correlation between Crystal Structure and Magnetism in the Frustrated Antiferromagnet CuFeO₂ under High Magnetic Fields"
N. Terada, Y. Narumi, Y. Sawai, K. Katsumata, U. Staub, Y. Tanaka, A. Kikkawa, T. Fukui, K. Kindo, T. Yamamoto, R. Kanmuri, M. Hagiwara, H. Toyokawa, T. Ishikawa, H. Kitamura
Physical Review B, **75**, (2007), 224411
- [55] "Coexistence of Strongly Mixed-Valence and Heavy-Fermion Character in SmOs₄Sb₁₂ Studied by Soft- and Hard-X-Ray Spectroscopy"
A. Yamasaki, S. Imada, H. Higashimichi, H. Fujiwara, T. Saita, T. Miyamachi, A. Sekiyama, A. Higashiya, M. Yabashi, K. Tamasaku, D. Miwa, T. Ishikawa, H. Sato, H. Sugawara, D. Kikuchi, S. Suga
Physical Review Letters, **98**, (2007), 156402

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Refereed Journals

- [2003]
- [1] "Structural Insight into Modest Binding of a Non-PXXP Ligand to the Signal Transducing Adaptor Molecule-2 Src Homology 3 Domain"
T. Kaneko, T. Kumasaka, T. Ganbe, T. Sato, K. Miyazawa, N. Kitamura, N. Tanaka
The Journal of Biological Chemistry, **279**, (2003), 48162-48168
- [2] "Crystallization and Preliminary X-ray Crystallographic Studies of NADP-dependent 3-hydroxyisobutyrate Dehydrogenase from *Thermus thermophilus* HB8"
N. Lokanath, I. Shiromizu, Y. Nodake, M. Sugahara, S. Yokoyama, S. Kuramitsu, M. Miyano, N. Kunishima
Acta Crystallographica Section D, **59**, (2003), 2294-2296
- [2004]
- [3] "Crystallization and Preliminary X-ray Crystallographic Study of the Editing Domain of *Thermus thermophilus* Isoleucyl-tRNA Synthetase Complexed with Pre- and Post-Transfer Editing-Substrate Analogues"
R. Fukunaga, S. Yokoyama
Acta Crystallographica Section D, **60**, (2004), 1900-1902
- [4] "Crystallization and Preliminary X-ray Crystallographic Study of Leucyl-tRNA Synthetase from the Archaeon *Pyrococcus horikoshii*"
R. Fukunaga, S. Yokoyama
Acta Crystallographica Section D, **60**, (2004), 1916-1918

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