

- [96] "Mutual Experimental and Theoretical Validation of Bulk Photoemission Spectra of  $\text{Sr}_{1-x}\text{Ca}_x\text{VO}_3$ "  
A. Sekiyama, H. Fujiwara, S. Imada, S. Suga, H. Eisaki, S. Uchida, K. Takegahara, H. Harima, Y. Saitoh, I. Nekrasov, G. Keller, D. Kondakov, A. Kozhevnikov, T. Pruschke, K. Held, D. Vollhardt, V. Anisimov  
*Physical Review Letters*, **93**, (2004), 156402
- [97] "Magnetic Circular Dichroism at Fe and V  $L_{2,3}$  Thresholds of Heusler-type  $\text{Fe}_{2-x}\text{V}_{1+x}\text{Al}$ "  
K. Soda, H. Murayama, S. Yagi, M. Kato, T. Takeuchi, U. Mizutani, S. Imada, S. Suga, Y. Saitoh, T. Muro, H. Sumi, Y. Nishino  
*Physica B*, **351**, (2004), 338-340
- [98] "X-ray Angle-Resolved Photoemission Spectroscopy of  $\text{CaB}_6$ "  
S. Souma, T. Takahashi, H. Komatsu, T. Sato, H. Matsui, N. Kimura, H. Aoki, S. Kunii, J. Akimitsu  
*Physical Review B*, **70**, (2004), 073104
- [99] "High-Energy Angle-Resolved Photoemission Spectroscopy Probing Bulk Correlated Electronic States in Quasi-One-Dimensional  $\text{V}_6\text{O}_{13}$  and  $\text{SrCuO}_2$ "  
S. Suga, A. Shigemoto, A. Sekiyama, S. Imada, A. Yamasaki, A. Irizawa, S. Kasai, Y. Saitoh, T. Muro, N. Tomita, K. Nasu, H. Eisaki, Y. Ueda  
*Physical Review B*, **70**, (2004), 155106
- [100] "Contribution of Electronic Structure to the Large Thermoelectric Power in Layered Cobalt Oxides"  
T. Takeuchi, T. Kondo, T. Takami, H. Takahashi, H. Ikuta, U. Mizutani, K. Soda, R. Funahashi, M. Shikano, M. Mikami, S. Tsuda, T. Yokoya, S. Shin, T. Muro  
*Physical Review B*, **69**, (2004), 125410
- [101] "Soft X-ray Spectroscopy Study of Mn Nanoclusters on Si(111)- $7 \times 7$  Surface"  
T. Xie, A. Kimura, S. Qiao, K. Iori, K. Miyamoto, M. Taniguchi, M. Pan, J. Jia, Q. Xue  
*Physica B*, **351**, (2004), 351-354
- [102] "X-ray Magnetic Circular Dichroism at  $L_{23}$  Edge of Co Nanoclusters on Si(111) Surface"  
T. Xie, A. Kimura, S. Qiao, T. Moko, T. Muro, M. Taniguchi, M. Pan, J. Jia, Q. Xue  
*Journal of Physics: Condensed Matter*, **16**, (2004), S5783-S5786
- [103] "Electronic Structure of Cr1- $\delta$ X (X=S, Te) Studied by Cr  $2p$  Soft X-ray Magnetic Circular Dichroism"  
K. Yaji, A. Kimura, C. Hirai, M. Taniguchi, M. Koyama, H. Sato, K. Shimada, A. Tanaka, T. Muro, S. Imada, S. Suga  
*Physical Review B*, **70**, (2004), 064402
- [104] "Soft X-ray Magnetic Circular Dichroism Study of  $\text{Cr}_5\text{S}_6$ "  
K. Yaji, M. Koyama, A. Kimura, C. Hirai, H. Sato, K. Shimada, A. Tanaka, M. Taniguchi  
*Physica B*, **351**, (2004), 344-346
- [2005]
- [105] "The Kondo Resonance in Electron Spectroscopy"  
J. Allen  
*Journal of the Physical Society of Japan*, **74**, (2005), 34-48
- [106] "Magnetism-Induced Symmetry Breaking in Photoelectron Diffraction Patterns"  
A. Chassé, W. Kuch, M. Kotsugi, X. Gao, F. Offi, S. Imada, S. Suga, H. Daimon, J. Kirschner  
*Physical Review B*, **71**, (2005), 014444
- [107] "Absence of Strong Correlation in  $\text{Li}_2\text{Pd}_3\text{B}$ "  
T. Yokoya, T. Muro, I. Hase, H. Takeya, K. Hirata, K. Togano  
*Physical Review B*, **71**, (2005), 092507

## BL27SU

### Refereed Papers

[1998]

- [1] "Thermal and Deformation Analyses of Side-Cooled Monochromator Mirrors for the SPring-8/Figure-8 Soft X-Ray Undulator"  
N. Kihara, K. Mashima, S. Miura, A. Miyaji, K. Wakamiya, S. Takahashi, M. Kageyama, S. Ichikawa  
*Journal of Synchrotron Radiation*, **5**, (1998), 811-813
- [2] "Soft X-Ray Photochemistry Beamline at SPring-8"  
I. Koyano, M. Okuyama, E. Ishiguro, A. Hiraya, H. Ohashi, T. Kanashima, K. Ueda, I. H. Suzuki, T. Ibuki  
*Journal of Synchrotron Radiation*, **5**, (1998), 545-547

- [3] "An Insertion Device for the Soft X-Ray Photochemistry Beamline at SPring-8"  
T. Tanaka, X. Marechal, T. Hara, T. Tanabe, H. Kitamura  
*Journal of Synchrotron Radiation*, **5**, (1998), 459-461  
[1999]
- [4] "Design of a Monochromator with Varied Line Space Plane Gratings for a Soft X-Ray Undulator Beamline of SPring-8"  
E. Ishiguro, H. Ohashi, L. Lu, W. Watari, M. Kamizato, T. Ishikawa  
*Journal of Electron Spectroscopy and Related Phenomena*, **101-103**, (1999), 979-984
- [5] "Construction and Performance of a Figure-8 Undulator"  
T. Tanaka, T. Hara, M. Oura, H. Ohashi, H. Kimura, S. Goto, Y. Suzuki, H. Kitamura  
*Review of Scientific Instruments*, **70**, (1999), 4153-4160  
[2000]
- [6] "Nuclear Motion in the  $O\ 1s^{-1}\ 2\pi_u$  Core-Excited States of  $CO_2$  Probed by Sub-Natural-Width Resonant Auger Emission Spectroscopy"  
Y. Muramatsu, Y. Shimizu, H. Yoshida, K. Okada, N. Saito, I. Koyano, H. Tanaka, K. Ueda  
*Chemical Physics Letters*, **330**, (2000), 91-96
- [7] "Resonant Auger Spectrum Following  $Kr:2p \rightarrow 5s$  Photoexcitation"  
S. Nagaoka, T. Ibuki, N. Saito, Y. Shimizu, Y. Senba, K. Kamimori, Y. Tamenori, H. Ohashi, I. H. Suzuki  
*Journal of Physics B: Atomic, Molecular and Optical Physics*, **33**, (2000), L605-L610
- [8] "High-Resolution Angle-Resolved Ion-Yield Measurements of  $H_2O$  and  $D_2O$  in the Region of  $O\ 1s$  to Rydberg Transitions"  
K. Okada, K. Ueda, T. Tokushima, Y. Senba, H. Yoshida, Y. Shimizu, M. Simon, H. Chiba, H. Okumura, Y. Tamenori, H. Ohashi, N. Saito, S. Nagaoka, I. H. Suzuki, E. Ishiguro, I. Koyano, T. Ibuki, A. Hiraya  
*Chemical Physics Letters*, **326**, (2000), 314-320
- [9] "Interference Effects in the Branching Ratio for the Partial Decay Channels of the  $Ne(1s-13p)$  Resonance"  
N. Saito, N. M. Kabachnik, Y. Shimizu, H. Yoshida, H. Ohashi, Y. Tamenori, I. H. Suzuki, K. Ueda  
*Journal of Physics B: Atomic, Molecular and Optical Physics*, **33**, (2000), L729-L734
- [10] "Molecular Deformation in the  $O1s^{-1}2\pi_u$  Excited States of  $CO_2$  Probed by the Triple-Differential Measurement of Fragment Ions"  
N. Saito, K. Ueda, M. Simon, K. Okada, Y. Shimizu, H. Chiba, Y. Senba, H. Okumura, H. Ohashi, Y. Tamenori, S. Nagaoka, A. Hiraya, H. Yoshida, E. Ishiguro, T. Ibuki, I. H. Suzuki, I. Koyano  
*Physical Review A*, **62**, (2000), 042503
- [11] "High Resolution Angle-Resolved Measurements of Auger Emission from the Photo-Excited  $1s^{-1}\ 3p$  State of Ne"  
Y. Shimizu, H. Yoshida, K. Okada, Y. Muramatsu, N. Saito, H. Ohashi, Y. Tamenori, S. Fritzsche, N. M. Kabachnik, H. Tanaka, K. Ueda  
*Journal of Physics B: Atomic, Molecular and Optical Physics*, **33**, (2000), L685-L689
- [12] "Characterization of Radiation from a Figure-8 Undulator by a Gas-Scattering Method"  
T. Tanaka, M. Oura, H. Ohashi, S. Goto, Y. Suzuki, H. Kitamura  
*Journal of Applied Physics*, **88**, (2000), 2101-2107
- [13] "Angle-Resolved Study of the Auger Electron Cascades Following the  $1s \rightarrow 3p$  Photoexcitation of Ne"  
H. Yoshida, K. Ueda, N. M. Kabachnik, Y. Shimizu, Y. Senba, Y. Tamenori, H. Ohashi, I. Koyano, I. H. Suzuki, R. Hentges, J. Viehhaus, U. Becker  
*Journal of Physics B: Atomic, Molecular and Optical Physics*, **33**, (2000), 4343-4352  
[2001]
- [14] "High Resolution Measurement for the Resonant Auger Emission of Xe Following  $3d_{5/2} \rightarrow 6p$  Excitation"  
A. De Fanis, N. Saito, M. Kitajima, Y. Shimizu, K. Okada, H. Tanaka, I. Koyano, K. Ueda  
*Journal of Physics B: Atomic, Molecular and Optical Physics*, **34**, (2001), L377-L382
- [15] " $H_2^+$  Formation from  $H_2O^+$  Mediated by the Core-Excitation-Induced Nuclear Motion in  $H_2O$ "  
A. Hiraya, K. Nobusada, M. Simon, K. Okada, T. Tokushima, Y. Senba, H. Yoshida, K. Kamimori, H. Okumura, Y. Shimizu, A. -L. Thomas, P. Millie, I. Koyano, K. Ueda  
*Physical Review A*, **63**, (2001), 042705
- [16] "Synchrotron Radiation-Induced Nitritization and Oxidation on Si Surface at Low Temperature"  
T. Kanashima, O. Maida, N. Kohma, M. Agata, S. Yudate, M. Ueno, M. Okuyama, H. Ohashi  
*Japanese Journal of Applied Physics*, **40**, (2001), 4195-4196

- [17] "Evaporation and Expansion of Poly-Tetra-Fluoro-Ethylene Induced by Irradiation of Soft X-Rays from a Figure-8 Undulator"  
O. Maida, N. Kohma, M. Ueno, A. Shibuya, T. Kanashima, M. Okuyama, H. Ohashi  
Japanese Journal of Applied Physics, **40**, (2001), 2435-2439
- [18] "Microfocusing of Soft X-Ray Undulator Light Using an Elliptically Bent Cylinder Mirror"  
S. Miura, N. Kihara, K. Mashima, A. Miyaji, E. Ishiguro, H. Ohashi, Y. Tamenori, H. Okumura, T. Kanashima, T. Ishikawa  
Nuclear Instruments and Methods in Physics Research Section A, **467-468**, (2001), 287-290
- [19] "Outline of Soft X-Ray Photochemistry Beamline BL27SU of SPring-8"  
H. Ohashi, E. Ishiguro, Y. Tamenori, H. Kishimoto, M. Tanaka, M. Irie, T. Tanaka, T. Ishikawa  
Nuclear Instruments and Methods in Physics Research Section A, **467-468**, (2001), 529-532
- [20] "Monochromator for a Soft X-Ray Photochemistry Beamline BL27SU of SPring-8"  
H. Ohashi, E. Ishiguro, Y. Tamenori, H. Okumura, A. Hiraya, H. Yoshida, Y. Senba, K. Okada, N. Saito, I. H. Suzuki, K. Ueda, T. Ibuki, S. Nagaoka, I. Koyano, T. Ishikawa  
Nuclear Instruments and Methods in Physics Research Section A, **467-468**, (2001), 533-536
- [21] "Sub-Natural-Width Angle-Resolved Resonant Auger Electron Spectroscopy of Atoms and Molecules on the High Resolution Soft X-Ray Monochromator at SPring-8"  
Y. Shimizu, H. Ohashi, Y. Tamenori, Y. Muramatsu, H. Yoshida, K. Okada, N. Saito, H. Tanaka, I. Koyano, S. Shin, K. Ueda  
Journal of Electron Spectroscopy and Related Phenomena, **114-116**, (2001), 63-68
- [22] "Various Monitors in a Soft X-Ray Monochromator of BL27SU of SPring-8"  
Y. Tamenori, H. Ohashi, E. Ishiguro, H. Okumura, T. Fukui, T. Miura, H. Kishimoto, J. Tanase, N. Kamachi, K. Endo, T. Ishikawa  
Nuclear Instruments and Methods in Physics Research Section A, **467-468**, (2001), 789-792
- [23] "Angle-Resolved Electron and Ion Spectroscopy Apparatus on the Soft X-Ray Photochemistry Beamline BL27SU at SPring-8"  
K. Ueda, H. Yoshida, Y. Senba, K. Okada, Y. Shimizu, H. Chiba, H. Ohashi, Y. Tamenori, H. Okumura, N. Saito, S. Nagaoka, A. Hiraya, E. Ishiguro, T. Ibuki, I. H. Suzuki, I. Koyano  
Nuclear Instruments and Methods in Physics Research Section A, **467-468**, (2001), 1502-1504
- [2002]
- [24] "Doppler Interference in Dissociative Resonant Photoemission"  
A. Baev, F. Gel'mukhanov, P. Salek, H. Agren, K. Ueda, A. De Fanis, K. Okada, S. Sorensen  
Physical Review A, **66**, (2002), 022509
- [25] "Resonant Auger Decay of Xe  $3d^{-1}6p$  To Xe<sup>+</sup>  $4d^{-2}np$ "  
A. De Fanis, K. Ueda, N. Saito, M. Kitajima, H. Tanaka, Y. Shimizu, K. Okada, I. Koyano  
Surface Review and Letters, **9**, (2002), 51-55
- [26] "Control of Nuclear Motion in the B  $2b_2$  Ionic State of Water via an Auger Resonant Raman Process"  
A. De Fanis, K. Nobusada, I. Hjelte, N. Saito, M. Kitajima, M. Okamoto, H. Tanaka, H. Yoshida, A. Hiraya, I. Koyano, M. N. Piancastelli, K. Ueda  
Journal of Physics B: Atomic, Molecular and Optical Physics, **35**, (2002), L23-L29
- [27] "Symmetry-Dependent Multielectron Excitations near the C  $1s$  Ionization Threshold and Distortion of the Shape Resonance in CO<sub>2</sub>"  
A. De Fanis, N. Saito, A. A. Pavlychev, D. Yu. Ladonin, M. Machida, K. Kubozuka, I. Koyano, K. Okada, K. Ikejiri, A. Cassimi, A. Czasch, R. Doerner, H. Chiba, Y. Sato, K. Ueda  
Physical Review Letters, **89**, (2002), 023006
- [28] "Interference Effects in the Resonant Photoemission Channels to the Ne<sup>+</sup>  $2p^4(^1D_2)3p^2P$ ,  $^2D$ , and  $^2F$  States in the Ne  $1s$  Excitation Region"  
A. De Fanis, N. Saito, H. Yoshida, Y. Senba, Y. Tamenori, H. Ohashi, H. Tanaka, K. Ueda  
Physical Review Letters, **89**, (2002), 243001
- [29] "Photoemission Study of Pyrochlore Superconductor Cd<sub>2</sub>Re<sub>2</sub>O<sub>7</sub>"  
R. Eguchi, T. Yokoya, T. Baba, M. Hanawa, Z. Hiroi  
Physical Review B, **66**, (2002), 012516
- [30] "Resonant Auger Spectra of Kr near the  $L_3$  Threshold"  
T. Ibuki, K. Kamimori, K. Okada, J. Sasaki, A. Hiraya, H. Yoshida, S. Nagaoka, Y. Shimizu, H. Ohashi, Y. Tamenori, N. Saito, I. H. Suzuki  
Surface Review and Letters, **9**, (2002), 85-88

- [31] "Burst Reaction of Thin Films Excited by High-Flux Soft X-Rays"  
T. Kanashima, M. Okuyama, H. Okamoto, K. Hattori, H. Ohashi, E. Ishiguro  
*Surface Review and Letters*, **9**, (2002), 401-405
- [32] "Low Temperature Growth Using Photo-Induced Process and Characterization of Dielectric Thin Films"  
O. Maida  
Doctor Thesis (Osaka University), (2002)
- [33] "Direct Probe of the Bent and Linear Geometries of the Core-Excited Renner-Teller Pair States by Means of the Triple-Ion-Coincidence Momentum Imaging Technique"  
Y. Muramatsu, K. Ueda, N. Saito, H. Chiba, M. Lavollee, A. Czasch, T. Weber, O. Jagutzki, H. Schmidt-Bocking, R. Moshhammer, U. Becker, K. Kubozuka, I. Koyano  
*Physical Review Letters*, **88**, (2002), 133002
- [34] "Bent and Linear Geometries of Renner-Teller Pair States in CO<sub>2</sub> Probed by Triple-Ion-Coincidence Momentum Imaging"  
Y. Muramatsu, K. Ueda, H. Chiba, N. Saito, M. Lavollee, A. Czasch, T. Weber, O. Jagutzki, H. Schmidt-Bocking, R. Moshhammer, K. Kubozuka, I. Koyano  
*Surface Review and Letters*, **9**, (2002), 93-97
- [35] "Symmetry Breaking of A SiF<sub>4</sub> Molecule by F 1s Excitation"  
K. Okada, Y. Tamenori, I. Koyano, K. Ueda  
*Surface Review and Letters*, **9**, (2002), 89-92
- [36] "Angle-Resolved Ion-Yield Measurements of CO<sub>2</sub> in the O 1s to Rydberg Excitation Region"  
K. Okada, H. Yoshida, Y. Senba, K. Kamimori, Y. Tamenori, H. Ohashi, K. Ueda, T. Ibuki  
*Physical Review A*, **66**, (2002), 032503
- [37] "Auger Electron Spectra of Kr2p Holes Using Monochromatic Soft X-Rays"  
I. H. Suzuki, K. Okada, K. Kamimori, J. Sasaki, H. Yoshida, A. Hiraya, Y. Shimizu, S. Nagaoka, Y. Tamenori, H. Ohashi, T. Ibuki  
*Surface Review and Letters*, **9**, (2002), 63-67
- [38] "Performance of a Grating Monochromator at BL27SU Beamline of SPring-8 in the Higher Energy Region"  
Y. Tamenori, H. Ohashi, E. Ishiguro, T. Ishikawa  
*Review of Scientific Instruments*, **73**, (2002), 1588-1590
- [39] "A Study on Multi-Charged Xe Ions Formed through 3d Hole States Using a Coincidence Technique"  
Y. Tamenori, K. Okada, S. Nagaoka, T. Ibuki, S. Tanimoto, Y. Shimizu, A. Fujii, Y. Haga, H. Yoshida, H. Ohashi, I. H. Suzuki  
*Journal of Physics B: Atomic, Molecular and Optical Physics*, **35**, (2002), 2799-2809
- [40] "Design of a Flat Field Spectrometer for Soft X-Ray Emissions Spectroscopy"  
T. Tokushima, Y. Harada, M. Watanabe, Y. Takata, E. Ishiguro, A. Hiraya, S. Shin  
*Surface Review and Letters*, **9**, (2002), 503-508
- [41] "Nuclear Motion, Symmetry Breaking and Dissociation Dynamics of Core-Excited Polyatomic Molecules"  
K. Ueda  
*Surface Review and Letters*, **9**, (2002), 21-29
- [42] "Symmetry-Resolved Vibrational Spectroscopy for the C 1s<sup>-1</sup>2π<sub>u</sub> Renner-Teller Pair States in CO<sub>2</sub>"  
H. Yoshida, K. Nobusada, K. Okada, S. Tanimoto, N. Saito, A. De Fanis, K. Ueda  
*Physical Review Letters*, **88**, (2002), 083001
- [2003]
- [43] "Probing Doubly Excited Ionic States of N<sub>2</sub><sup>+</sup> via a Triple Excitation above the N 1s Threshold in the N<sub>2</sub> Molecule"  
R. Feifel, K. Ueda, A. De Fanis, K. Okada, S. Tanimoto, T. Furuta, H. Shindo, M. Kitajima, H. Tanaka, O. Bjornholm, L. Karlsson, S. Svensson, S. L. Sorensen  
*Physical Review A*, **67**, (2003), 032504
- [44] "Depth Profiling of Oxynitride Film Formed on Si(100) by Photon Energy Dependent Photoelectron Spectroscopy"  
T. Hattori, K. Nishizaki, H. Nohira, K. Takahashi, N. Kamakura, Y. Takata, S. Shin, K. Kobayashi, N. Tamura, K. Hikazutani  
*Applied Surface Science*, **216**, (2003), 287-290

- [45] "The Excitation Mechanism of the Lowest-Energy Satellite Bands in the C 1s Core Level Photoemission of CO<sub>2</sub>"  
M. Hoshino, T. Tanaka, M. Kitajima, H. Tanaka, A. De Fanis, A. A. Pavlychev, K. Ueda  
Journal of Physics B: Atomic, Molecular and Optical Physics, **36**, (2003), L381-L386
- [46] "Soft X-Ray Energy-Dependent Angle-Resolved Photoemission Study of CeIrIn<sub>5</sub>"  
T. Ito, P. A. Rayjada, N. Kamakura, Y. Takata, T. Yokoya, A. Chainani, S. Shin, M. Nohara, H. Takagi  
Journal of Physics: Condensed Matter, **15**, (2003), S2149-S2152
- [47] "Preparation and Characterization of Fluorocarbon Thin Films Deposited by Soft X-Ray Ablation of Polytetrafluoroethylene"  
T. Kanashima, O. Maida, N. Kohma, M. Okumoto, M. Ueno, S. Kitai, M. Okuyama, H. Ohashi  
Japanese Journal of Applied Physics, **42**, (2003), L603-L606
- [48] "Dynamics of Photoionization and Photoexcitation of Molecules Probed by Multiple Coincidence Momentum Imaging"  
N. Saito, K. Ueda, I. Koyano  
AIP Conference proceedings, **652**, (2003), 172-181
- [49] "Carbon K-Shell Photoelectron Angular Distribution from Fixed-In-Space CO<sub>2</sub> Molecules"  
N. Saito, A. De Fanis, K. Kubozuka, M. Machida, M. Takahashi, H. Yoshida, I. H. Suzuki, A. Cassimi, A. Czasch, L. Schmidt, R. Doerner, K. Wang, B. Zimmermann, V. McKoy, I. Koyano, K. Ueda  
Journal of Physics B: Atomic, Molecular and Optical Physics, **36**, (2003), L25-L30
- [50] "Vibrationally Resolved O 1s Photoelectron Spectrum of Water"  
R. Sankari, M. Ehara, H. Nakatsuji, Y. Senba, K. Hosokawa, H. Yoshida, A. De Fanis, Y. Tamenori, S. Aksela, K. Ueda  
Chemical Physics Letters, **380**, (2003), 647-653
- [51] "Photoelectron Spectroscopy Study of Chemical and Electronic Structures at Ultrathin-Gate-Dielectrics/Silicon Interface"  
K. Takahashi  
Doctor Thesis (Musashi Institute of Technology), (2003)
- [52] "Doppler-Free Auger Resonant Raman Spectroscopy on Photochemistry Beamline at SPring-8"  
Y. Tamenori, M. Kitajima, A. De Fanis, H. Shindo, T. Furuta, M. Machida, M. Nagoshi, K. Ikejiri, H. Yoshida, H. Ohashi, I. Koyano, H. Tanaka, P. Baltzer, K. Ueda  
AIP Conference Proceedings, **652**, (2003), 71-76
- [53] "Soft X-Ray Emission Spectroscopy on Surface Adsorbate using a Newly Developed High Performance Spectrometer"  
T. Tokushima  
Doctor Thesis (Hiroshima University), (2003)
- [54] "Nuclear Motion and Symmetry Breaking of the B 1s-Excited BF<sub>3</sub> Molecule"  
K. Ueda, A. De Fanis, N. Saito, M. Machida, K. Kubozuka, H. Chiba, Y. Muramatsu, Y. Sato, A. Czasch, O. Jaguzki, R. Doerner, A. Cassimi, M. Kitajima, T. Furuta, H. Tanaka, S. L. Sorensen, K. Okada, S. Tanimoto, K. Ikejiri, Y. Tamenori, H. Ohashi, I. Koyano  
Chemical Physics, **289**, (2003), 135-147
- [55] "Doppler-Free Resonant Raman Auger Spectroscopy of Ne<sup>+</sup> 2s2p<sup>5</sup>3p Excited States"  
K. Ueda, M. Kitajima, A. De Fanis, Y. Tamenori, H. Yamaoka, H. Shindo, T. Furuta, T. Tanaka, H. Tanaka, H. Yoshida, R. Sankari, S. Aksela, S. Fritzsche, N. M. Kabachnik  
Physical Review Letters, **90**, (2003), 153005
- [56] "Anisotropic Ultrafast Dissociation Probed by Doppler Effect in Resonant Photoemission from CF<sub>4</sub>"  
K. Ueda, M. Kitajima, A. De Fanis, T. Furuta, H. Shindo, H. Tanaka, K. Okada, R. Feifel, S. L. Sorensen, H. Yoshida, Y. Senba  
Physical Review Letters, **90**, (2003), 233006
- [2004]
- [57] "Dynamical Symmetry Breaking under Core Excitation in Graphite: Polarization Correlation in Soft X-Ray Recombination Emission"  
Y. Harada, T. Tokushima, Y. Takata, T. Takeuchi, Y. Kitajima, S. Tanaka, Y. Kayanuma, S. Shin  
Physical Review Letters, **93**, (2004), 017401
- [58] "Lattice Distortion in Graphite Observed by Soft X-ray Recombination Emission Spectroscopy"  
Y. Harada, S. Shin  
分光研究 (Journal of Spectroscopical Society of Japan), **53**, (2004), 297-298

- [59] "Total Photoabsorption Cross-Sections of  $\text{CF}_3\text{SF}_5$  in the C, F and S K-shell Regions"  
T. Ibuki, Y. Shimada, S. Nagaoka, A. Fujii, M. Hino, T. Kakiuchi, K. Okada, K. Tabayashi, T. Matsudo, Y. Yamana, Isao H. Suzuki, Y. Tamenori  
*Chemical Physics Letters*, **392**, (2004), 303-308
- [60] "Layer-Dependent Band Dispersion and Correlations using Tunable Soft X-ray ARPES"  
N. Kamakura, Y. Takata, T. Tokushima, Y. Harada, A. Chainani, K. Kobayashi, S. Shin  
*Europhysics Letters*, **67**, (2004), 240-246
- [61] "Probe of Bending Motion Following the  $1s^{-1}\pi^*$  Excitation of  $\text{N}_2\text{O}$ "  
M. Machida, M. Lavollee, J. Randrianjafisoa, G. Laurent, M. Nagoshi, K. Okada, I. Koyano, N. Saito  
*The Journal of Chemical Physics*, **120**, (2004), 3635-3641
- [62] "Observation of the Angle-Resolved Resonant Auger Emission from the  $[1s2p](^3,^1P)3p^2\ ^1P$  Doubly Excited  $2p$ - $2h$  States of Ne"  
M. Oura, Y. Tamenori, T. Hayaishi, Y. Kanai, H. Yoshii, K. Tsukamoto, F. Koike  
*Physical Review A*, **70**, (2004), 022710
- [63] "Experimental and Theoretical Study of Resonant Auger Decay of Core-Excited  $\text{NO}_2$ "  
M. Piancastelli, V. Carravetta, I. Hjelte, A. De Fanis, K. Okada, N. Saito, M. Kitajima, H. Tanaka, K. Ueda  
*Chemical Physics Letters*, **399**, (2004), 426-432
- [64] "Nuclear Dynamics of Core-Excited and Ionized Small Polyatomic Molecules Probed by Multiple Coincidence Momentum Imaging Technique"  
N. Saito, A. De Fanis, I. Koyano, K. Ueda  
*Physica Scripta*, **T110**, (2004), 90-95
- [65] "Intra-Molecular  $\text{H}_2^+$  Formation in the Core-Excited HCCH Probed by Multiple-Ion Coincidence Momentum Imaging"  
N. Saito, M. Nagoshi, M. Machida, I. Koyano, A. De Fanis, K. Ueda  
*Chemical Physics Letters*, **393**, (2004), 295-299
- [66] "Deformation, Nuclear Motion and Fragmentation of Core-Excited  $\text{CO}_2$  Probed by Multiple-Ion Coincidence Momentum Imaging"  
N. Saito, Y. Muramatsu, H. Chiba, K. Ueda, K. Kubozuka, I. Koyano, K. Okada, O. Jagutzki, A. Czasch, T. Weber, M. Hattass, H. Schmidt-Böcking, R. Moshhammer, M. Lavollée, U. Becker  
*Journal of Electron Spectroscopy and Related Phenomena*, **141**, (2004), 183-193
- [67] "Symmetry- and Multiplet-Resolved N  $1s$  Photoionization Cross Sections of the  $\text{NO}_2$  Molecule"  
N. Saito, D. Toffoli, R. R. Lucchese, M. Nagoshi, A. De Fanis, Y. Tamenori, M. Oura, H. Yamaoka, M. Kitajima, H. Tanaka, U. Hergenhahn, K. Ueda  
*Physical Review A*, **70**, (2004), 062724
- [68] "X-ray Photoelectron Spectroscopy Study on  $\text{SiO}_2/\text{Si}$  Interface Structures Formed by Three Kinds of Atomic Oxygen at  $300^\circ\text{C}$ "  
M. Shoji, T. Shiraiishi, K. Takahashi, H. Nohira, K. Azuma, Y. Nakata, Y. Takata, S. Shin, K. Kobayashi, T. Hattori  
*Applied Physics Letters*, **84**, (2004), 3756-3758
- [69] "Asymmetric Peaks of Photoelectrons and Auger Electrons Formed through Post-Collision Interaction Following Kr  $2p_{3/2}$  Hole Creation"  
I. Suzuki, A. Fujii, S. Nagaoka, M. Kosugi, K. Okada, T. Ibuki, S. Samori, Y. Tamenori, H. Ohashi  
*Journal of Physics B: Atomic, Molecular and Optical Physics*, **37**, (2004), 1433-1441
- [70] "Doping-Dependent Changes in Nitrogen  $2p$  States in the Diluted Magnetic Semiconductor  $\text{Ga}_{1-x}\text{Cr}_x\text{N}$ "  
T. Takeuchi, Y. Harada, T. Tokushima, M. Taguchi, Y. Takata, A. Chainani, J. Kim, H. Makino, T. Yao, T. Yamamoto, T. Tsukamoto, S. Shin, K. Kobayashi  
*Physical Review B*, **70**, (2004), 245323
- [71] "Branching Ratios of Multiply Charged Ions Formed through Photoionization of Kr  $3d$ ,  $3p$  and  $3s$  Sub-Shells Using Coincidence Technique"  
Y. Tamenori, K. Okada, S. Tanimoto, T. Ibuki, S. Nagaoka, A. Fujii, Y. Haga, I. H. Suzuki  
*Journal of Physics B: Atomic, Molecular and Optical Physics*, **37**, (2004), 117-129
- [2005]
- [72] "Introduction of Photoemission Electron Microscopes at SPring-8 for Nanotechnology Support"  
F. Guo, T. Wakita, H. Shimizu, E. Bauer, T. Koshikawa, T. Yasui, T. Matsushita, K. Kobayashi  
*Journal of Physics: Condensed Matter*, **17**, (2005), S1363-S1370

- [73] "Polarization Dependence of Soft X-ray Emission Spectroscopy : Basic Study and Its Application to Solid State Physics"  
Y. Harada  
放射光 (Journal of the Japanese Society for Synchrotron Radiation Research), **18**, (2005), 101-103
- [74] "Angular Distribution of Different Vibrational Components of the X- and B-States Reached after Resonant Auger Decay of Core-Excited H<sub>2</sub>O: Experiment and Theory"  
I. Hjelte, A. De Fanis, V. Carravetta, N. Saito, M. Kitajima, H. Tanaka, H. Yoshida, A. Hiraya, I. Koyano, L. Karlsson, S. Svensson, K. Ueda, M. Piancastelli  
The Journal of Chemical Physics, **122**, (2005), 084307
- [75] "Study of Auger Decay Process Following Multielectron Excitation Accompanying F 1s Photoionization of CF<sub>4</sub>"  
M. Machida, Y. Tamenori, M. Oura, T. Mukoyama  
Journal of Electron Spectroscopy and Related Phenomena, **144-147**, (2005), 219-222
- [76] "Variation in Resonant Auger Yields into the <sup>1</sup>G<sub>4</sub> · *nl* States of Kr across the L<sub>3</sub> Threshold"  
K. Okada, S. Nagaoka, M. Kosugi, A. Fujii, T. Ibuki, Y. Tamenori, H. Ohashi, Isao H. Suzuki, S. Samori, K. Ohno  
Journal of Physics B: Atomic, Molecular and Optical Physics, **38**, (2005), 421-431
- [77] "Manifestation of Auger Resonant Raman Effect on Double-Spectator Type Auger Transitions in the Ne[1s2p](<sup>3</sup>P)3p<sup>2</sup> <sup>1</sup>P Resonant Double Excitation Region"  
M. Oura, Y. Tamenori, T. Hayaishi, M. Matida, F. Koike  
Journal of the Physical Society of Japan, **74**, (2005), 1154-1159
- [78] "Resonant Auger Decay of Above-Threshold Core-Excited H<sub>2</sub>O"  
M. Piancastelli, R. Sankari, S. Sorensen, A. De Fanis, H. Yoshida, M. Kitajima, H. Tanaka, K. Ueda  
Physical Review A, **71**, (2005), 010703
- [79] "Electronic Structure Characteristics of MBE (Molecular Beam Epitaxy)-Grown Diluted Magnetic Semiconductor Ga<sub>1-x</sub>Cr<sub>x</sub>N Films"  
T. Takeuchi, M. Taguchi, Y. Harada, T. Tokushima, Y. Takata, A. Chainani, J. Kim, H. Makino, T. Yao, T. Tsukamoto, S. Shin, K. Kobayashi  
Japanese Journal of Applied Physics, **44**, (2005), L153-L155
- [80] "Soft X-ray Spectroscopy of Diluted Magnetic Semiconductor Ga<sub>1-x</sub>M<sub>x</sub>N (M=Cr, Mn)"  
T. Takeuchi, Y. Harada, T. Tokushima, Y. Takata, A. Chainani, J. Kim, P. Chen, H. Makino, T. Hanada, T. Yao, T. Yamamoto, T. Tsukamoto, K. Kobayashi, S. Shin  
Journal of Electron Spectroscopy and Related Phenomena, **144-147**, (2005), 707-710
- [81] "Inner-Shell Excitation of Ethanol Cluster at O K-edge"  
Y. Tamenori, K. Honma, T. Gejo, T. Yamaguchi, K. Okada, K. Tabayashi  
Journal of Electron Spectroscopy and Related Phenomena, **144-147**, (2005), 235-238

## BL28B2

### Refereed Papers

[2000]

- [1] "X-ray Scattering Topographic Observation for ZnSe and ZnTe Bulk Crystals"  
M. Shinbara, Y. Suzuki, Y. Chikaura, H. Kii  
Journal of Crystal Growth, **210**, (2000), 187-192

[2001]

- [2] "Construction of Topography Stations at SPring-8 and First Observations"  
Y. Chikaura, S. Iida, S. Kawado, K. Mizuno, S. Kimura, J. Matsui, M. Umeno, T. Ozaki, T. Shimura, Y. Suzuki, K. Izumi, K. Kawasaki, K. Kajiwara, T. Ishikawa  
Journal of Physics D: Applied Physics, **34**, (2001), A158-A162

[2002]

- [3] "放射光 X 線回折法による極薄膜 SOI(Silicon on Insulator)ウエーハの構造評価に関する研究"  
K. Fukuda  
Doctor Thesis (Osaka University), (2002)