
List of Publications 2004

Published Papers

Y. Akahama, H. Kawamura

High-Pressure UV Spectroscopy on Oxygen up to 1.5 GPa

Chem. Phys. Lett. **392** (2004) 476.

T. Gejo, E. Shigemasa, E. Nakamura, M. Hosaka, S. Koda, A. Mochihashi,

M. Katoh, J. Yamazaki, K. Hayashi, Y. Takashima, H. Hama

The Investigation of Excited States of Xe Atoms and Dimers by Synchronization of FEL and SR Pulses at UVSOR

Nucl. Instr. and Meth. A **528** (2004) 627.

T. Hatsui, M. Nagasono, N. Kosugi

Ar 2p Excited States of Argon in Non-polar Media

J. Electron Spectrosc. and Relat. Phenom. **137-140** (2004) 435.

T. Hatsui, H. Setoyama, E. Shigemasa, N. Kosugi

Design of a Novel Transmission-Grating Spectrometer for Soft X-Ray Emission Studies

J. Electron Spectrosc. and Relat. Phenom. **144-147** (2005) 1059.

Y. Hikosaka, K. Mitsuke

Autoionization and Neutral Dissociation of Superexcited HI Studied by Two-Dimensional Photoelectron Spectroscopy

J. Chem. Phys. **121** (2004) 792.

Y. Hikosaka, E. Shigemasa

Velocity Imaging Spectrometer for Negative Fragment Ions: Application to Dynamics of O₂ and N₂O Ion-Pair Dissociation

J. Electron Spectrosc. and Relat. Phenom. **148** (2005) 5.

S. Hino, N. Wanita, K. Iwasaki, D. Yoshimura, N. Ozawa, T. Kodama,

K. Sakaguchi, H. Nishikawa, I. Ikemoto, K. Kikuchi

Ultraviolet Photoelectron Spectra of Three Tm@C₈₂ Isomers

Chem. Phys. Lett. **402** (2005) 217.

M. Hiyama, N. Kosugi

Ad Initio R-Matrix/MQDT Method for Near-Edge X-Ray Absorption Fine Structure

Physica Scripta. **T115** (2005) 136.

M. Hosaka, M. Katoh, A. Mochihashi, J. Yamazaki, K. Hayashi, T. Takashima

Upgrade of the UVSOR Storage Ring FEL

Nucl. Instr. and Meth. A **528** (2004) 291.

T. Ibuki, K. Okada

Mass-Selected Ion Spectroscopy of K-Shell Excited Polyatomic Molecules: Fragmentation Competing with Intramolecular Energy Relaxation

Recent Res. Devel. Chem. Physics **5** (2004) 77.

K. Iwasaki, S. Hino, D. Yoshimura, B. Cao, T. Okazaki, H. Shinohara

Ultraviolet Photoelectron Spectra of $\text{Ti}_2@\text{C}_{80}$

Chem. Phys. Lett. **397** (2004) 169.

K. Iwasaki, N. Wanita, S. Hino, D. Yoshimura, T. Okazaki, H. Shinohara

Ultraviolet Photoelectron Spectra of $\text{Tb}@\text{C}_{82}$

Chem. Phys. Lett. **398** (2004) 389.

S. Kimura, M. Okuno, H. Kitazawa, F. Ishiyama, O. Sakai

Change of Electronic Structure Induced by Magnetic Transitions in CeBi

J. Phys. Soc. Jpn. **73** (8) (2004) 2041.

S. Kimura, T. Nishi, J. Sichelschmidt, V. Voevodin, J. Ferstl, C. Geibel, F. Steglich

Optical Conductivity of a Non-Fermi-Liquid Material YbRh_2Si_2

J. Mag. Mag. Mater. **272-276** (2004) 36.

M. Kitaura, K. Mochizuki, Y. Inabe, M. Itoh, H. Nakagawa, S. Oishi

Fundamental Optical Properties and Electronic Structure of Langasite $\text{La}_3\text{Ga}_5\text{SiO}_{14}$ Crystals

Phys. Rev. B **69** (2004) 115120.

S. Kimura, T. Nishi, Y. Mori, Y. Sumida, T. Takahashi, Y. S. Kwon, H. J. Im,
H. Kitazawa

Infrared Study on CeSb Under High Pressures

Physica B **359-361** (2005) 190.

N. Kosugi

Spin-orbit and Exchange Interactions in Molecular Inner Shell Spectroscopy

J. Electron Spectrosc. and Relat. Phenom. **137-140** (2004) 335.

J. Kou, T. Mori, Y. Kubozono, K. Mitsuke

Photofragmentation of C₆₀ in the Extreme Ultraviolet: Statistical Analysis on the Appearance Energies of C_{60-2n}^{z+} (n ≥ 1, z = 1-3)

Phys. Chem. Chem. Phys. **7** (2005) 119.

J. Kou, T. Mori, Y. Kubozono, K. Mitsuke

Photofragmentation of C₆₀ in Valence Ionization

J. Electron Spectrosc. and Relat. Phenom. **144-147** (2005) 247.

J. Kou, T. Mori, S. V. K. Kumar, Y. Haruyama, Y. Kubozono, K. Mitsuke

Double Photoionization of C₆₀ and C₇₀ in the Valence Region

J. Chem. Phys. **120** (2004) 6005.

K. Mitsuke

Photofragmentation Mechanisms of H₂O Studied by Ultraviolet Dispersed Spectroscopy

J. Electron Spectrosc. and Relat. Phenom. **144-147** (2005) 131.

K. Mitsuke, T. Mori, J. Kou, Y. Haruyama, Y. Kubozono

4d → 4f Dipole Resonance of the Metal Atom Encapsulated in a Fullerene Cage: Ce@C₈₂

J. Chem. Phys. **122** (2005) 064304.

A. Mochihashi, M. Katoh, M. Hosaka, K. Hayashi, J. Yamazaki, Y. Takashima,
Y. Hori

Ion Trapping Phenomenon in UVSOR Electron Storage Ring

Jpn. J. Appl. Phys. **44** (2005) 430.

T. Mori, J. Kou, M. Ono, Y. Haruyama, Y. Kubozono, K. Mitsuke

Absolute Photoabsorption Cross Section of C₆₀ in the Extreme Ultraviolet

J. Electron Spectrosc. and Relat. Phenom. **144-147** (2005) 243.

T. Naito, M. Tadano, N. Terunuma, J. Urakawa, E. Nakamura, M. Hasumoto, H. Sakai, T. Shibuya, F. Sakai, H. Ohgaki, N. Sei

Investigation of Carbon Contamination on SR-Irradiated Devices

Nucl. Instr. and Meth. A **527** (2004) 624.

Y. Nonogaki, M. Katoh, K. Matsushita, M. Suzui, T. Urisu

Construction of the Undulator Beamline Equipped with a UHV-STM for Observations of Synchrotron-Radiation-Stimulated Surface Reaction

J. Electron Spectrosc. and Relat. Phenom. **144-147** (2005) 1113.

K. Okada, S. Tanimoto, T. Ibuki, Y. Haga, T. Gejo, K. Saito, K. Ohno

Angle-resolved, Mass-Selected Ion Spectroscopy of Carbon K-Shell Excited CF₃CCH

Chem. Phys. **304** (2004) 273.

H. Okamura, T. Koretsune, S. Kimura, T. Nanba, H. Imai, Y. Shimakawa, Y. Kubo
Carrier-Induced Magnetic Circular Dichroism in the Magnetoresistive Pyrochlore Ti₂Mn₂O₇

J. Phys. Soc. Jpn. **74** (3) (2005) 970.

M. Ono, H. Yamane, F. Katagiri, H. Fukagawa, S. Kera, D. Yoshimura,

K. K. Okudaira, E. Morikawa, K. Seki, N. Ueno

UPS Study of VUV-Photodegradation of Polyfluoroethylene (PTFE) Ultrathin Film by Using Synchrotron Radiation

Nucl. Instr. and Meth. **B**, in press.

M. Ono, H. Yamane, H. Fukagawa, S. Kera, D. Yoshimura, E. Morikawa, K. Seki
N. Ueno

Possibility of the Fermi Level Control by VUV-Induced Doping of an Organic Thin Film: Polytetrafluoroethylene

Submitted to IPAP Conference Proceedings.

I. Ouchi, I. Nakai, M. Ono, S. Kimura

Features of Fluorescence Spectra of Polyethylene Terephthalate Films

Jpn. J. Appl. Phys. **43** (12) (2004) 8407.

H. Setoyama, T. Hatsui, N. Kosugi

S 2p Excited States of OCS in Rare Gas Matrices

J. Electron Spectrosc. and Relat. Phenom. **144-147** (2005) 87.

K. Soda, K. Shimba, S. Yagi, M. Kato, T. Takeuchi, U. Mizutani, T. Zhang,

M. Hasegawa, A. Inoue, T. Ito, S. Kimura

Electronic Structure of Bul; Metallic Glass $Zr_{55}Al_{10}Cu_{30}Ni_5$

J. Electron Spectrosc. and Relat. Phenom. **144-147** (2005) 585.

T. Tanaka, Y. Kume, S. Tokunaga, K. Hayashida, M. Nishio, Q. Guo, H. Ogawa

Synchrotron Radiation-Excited Etching of ZnTe

API Conference Proceedings **705** (2004) 1154.

Published Papers (before 2004)

J. Kou, T. Mori, M. Ono, Y. Haruyama, Y. Kubozono, K. Mitsuke

Molecular- and Atomic-Like Photoionization of C_{60} in the Extreme Ultraviolet

Chem. Phys. Lett. **374** (2003) 1.

T. Mori, J. Kou, M. Ono, Y. Haruyama, Y. Kubozono, K. Mitsuke

Development of a Photoionization Spectrometer for Accurate Ion Yield Measurements from Gaseous Fullerenes

Rev. Scientific Instrum. **74** (2003) 3769.

M. Ono, K. Mitsuke

Kinetic Energy Distribution and Anisotropy of Fragment Ions from SF_6 by Photoexcitation of a Sulfur 2p-Electron

Chem. Phys. Lett. **379** (2003) 248.