
List of Publications 2003

Published Papers

M. Katoh, M. Hosaka, A. Mochihashi, J. Yamazaki, K. Hayashi, Y. Hori, T. Honda, K. Haga, Y. Takashima, T. Koseki, S. Koda, H. Kitamura, T. Hara, T. Tanaka

Construction and Commissioning of UVSOR-II

* AIP Conference Proceedings **705** (2004) 49.

M. Hosaka, M. Katoh, A. Mochihashi, J. Yamazaki, K. Hayashi, Y. Takashima, T. Gejo, E. Shigemasa, E. Nakamura

Status and Prospects of User Applications of the UVSOR Storage Ring Free Electron Laser

*AIP Conference Proceedings **705** (2004) 61.

A. Mochihashi, M. Katoh, M. Hosaka, TK. Hayashi, J. Yamazaki, Y. Takashima, Y. Hori, H. Kitamura, T. Hara, T. Tanaka

In-Vacuum Undulators in UVSOR Electron Storage Ring

*AIP Conference Proceedings **705** (2004) 259.

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

Design and Performance of Undulator Beamline (BL7U) for In-Situ Observation of Synchrotron Radiation Stimulated Etching by STM

*AIP Conference Proceedings **705** (2004) 368.

S. Kimura, E. Nakamura, J. Yamazaki, M. Katoh, T. Nishi, H. Okamura, M. Matsunami, L. Chen, T. Nanba

New Infrared and Terahertz Beam Line BL6B at UVSOR

*AIP Conference Proceedings **705** (2004) 416.

T. Hatsui, E. Shigemasa, N. Kosugi

Design of a Transmission Grating Spectrometer and an Undulator Beamline for Soft X-Ray Emission Studies

*AIP Conference Proceedings **705** (2004) 921.

E. Shigemasa, E. Nakamura, T. Gejo

New Molecular Inner-Shell Spectroscopy for Probing Multiple Excitations

*AIP Conference Proceedings **705** (2004) 1118.

**in proceedings of SRI2003, California (USA), Aug. 2003.*

T. Ejima, Y. Muramatsu, H. Kakenaka, M. Watanabe

Simulation Study of Total-Electron-Yield X-Ray Standing-Wave Spectra of Mo/SiC/Si/SiC and Mo/Si Multilayers

* AIP Conference Proceedings **705** (2004) 1126.

M. Hosaka, M. Katoh, A. Mochihashi, J. Yamazaki, Y. Takashima, H. Hama

Q-switching Operation of the UVSOR-FEL

Nucl. Instr. and Meth. A **507** (2003) 289.

M. Itoh

Radiative and Nonradiative Decay Processes of Core Holes in Shallow-lying Inner Shells

Recent Res. Devel. Phys. **4** (2003) 205.

M. Itoh, Y. Inabe

Optical Properties and Electronic Structure of Yttrium Oxysulfide

Phys. Rev. B **68** (2003) 035107.

K. Kanda, Y. Shimizugawa, Y. Haruyama, I. Yamada, S. Matsui, T. Kitagawa, H. Tsubakino, T. Gejo

NEXAFS Study on Substrate Temperature Dependence of DLC Films Formed by Ar Cluster Ion Beam Assisted Deposition

Nucl. Instr. And Meth. B **206** (2003) 880.

S. Kimura, H. Iwata, K. Kanai, S. Shin, G. Schmerber, J. P. Kappler, J. C. Parlebas

Collapse of Kondo Lattice in $\text{Ce}_{1-x}\text{La}_x\text{Pd}_3$ ($x=0, 0.03$)

Acta Physica Polonica B **34** (2003) 975.

T. Misaki, A. Wakahara, H. Okada, A. Yoshida

Optical Properties of ZnGeN_2 Epitaxial Layer

phys. stat. sol. (c) **0**, No.7 (2003) 2890.

A. Motogaito, H. Watanabe, K. Hiramatsu, K. Fukui, Y. Hamamura, K. Tadatomo

Characterization of GaN Based Schottky UV Detectors in the Vacuum UV (VUV) and the Soft X-ray (SX) Region (10-100 nm)

phys. stat. sol. (a) **200**, No.1 (2003) 147.

**in proceedings of SRI2003, California (USA), Aug. 2003.*

H. Miyake, H. Yasukawa, Y. Kida, K. Ohta, Y. Shibata, A. Motogaito, K. Hiramatsu, Y. Ohuchi, K. Tadatomo, Y. Hamamura, K. Fukui
High Performance Schottky UV Detectors (265-100 nm) Using n-Al_{0.5}Ga_{0.5}N on AlN Epitaxial Layer

phys. stat. sol. (a) **200**, No.1 (2003) 151.

Y. Nagasaka, H. Ohta, K. Kawakami, A. Ueda, S. Ono, Y. Ikeuchi, T. Nanba, A. Hirano, R. Kanno

Millimeter Wave Spectroscopy of Secondary Battery Substance Li_{1-x}Ni_{1+x}O₂

J. Phys. Chem. Sol. **64** (2003) 1949.

K. G. Nath, Y. Ufuktepe, S. Kimura, Y. Haruyama, T. Kinoshita, T. Matsumura, T. Suzuki, H. Ogasawara, A. Kotani

Photoemission Study of Mixed-Valent Tm-Monochalcogenides: Evidence of Electron-Correlation Effect in Different Tm-Core Levels

J. Phys. Soc. Jpn. **72** No. 7 (2003) 1792.

K. Okada, S. Tanimoto, T. Morita, K. Saito, T. Ibuki, T. Gejo

Molecular Size Effect on the Site Dependent Photofragmentation of N and O K-Shell Excited CH₃CO(CH₂)_nCN (n = 0-3)

J. Phys. Chem. A **107** (2003) 8444.

A. Ohnishi, M. Kitaura, T. Otomo and M. Sasaki

Reflection Spectrum and Auger-Free Luminescence in Molecular Ionic Crystals of Cs₂ZnCl₄

J. Phys. Soc. Jpn. **72**, No. 9 (2003) 2400.

J. Sichelschmidt, V. Voevodin, S. Paschen, W. Carrillo-Cabrera, Y. Grin, F. Steglich, S. Kimura

Optical Reflectivity of the Clathrate Compound Ba₆Ge₂₅

Acta Phys. Pol. B **34** (2003) 613.

A. Tanaka, Y. Takeda, M. Imamura, S. Sato

Dynamic Final-state Effect on the Au 4f Core-level Photoemission of Dodecanethiolate-passivated Au Nanoparticles on Graphite Substrates

Phys. Rev. B **68** (2003) 195415.

H. Yamane, S. Kera, K. K. Okudaira, D. Yoshimura, K. Seki, N. Ueno

Intermolecular Energy-band Dispersion in PTCDA Multilayers

Phys. Rev. B **68** (2003) 033102.

L. F. Jiang, W. Z. Shen, H. Ogawa, Q. X. Guo,

Temperature Dependence of the Optical Properties in Hexagonal AlN

J. Appl. Phys. **94**, No. 9 (2003) 5704.

Q. X. Guo, M. Nishio, H. Ogawa, A. Yoshida,

Temperature Dependence of Aluminium Nitride Reflectance Spectra in Vacuum Ultraviolet Region

Solid State Communications **126** (2003) 601.

N. Kosugi,

Exchange Interaction in Core Excitation of Diatomic Systems

Chem. Phys. **289** (2003) 117.

T. Hatsui and N. Kosugi

Metal-to-ligand Charge Transfer in Polarized Metal L-edge X-ray Absorption of Ni and Cu Complexes

J. of Electron Spectrosc. and Relat. Phenom. **136** (2004) 67.

T. Hatsui, T. Yamamoto, H. Tajima and N. Kosugi

Cu L-edge X-ray absorption spectra of (Me₂-DCNQI)₂Li_(1-x)Cu_x alloys

Chem. Phys. **298** (2004) 189.

M. Yamaga, S. Yabashi, Y. Masui, M. Honda, H. Takahashi, M. Sakai, N. Sarukura,

J.-P. R. Wells, G. D. Jones

Optical, Infrared and EPR Spectroscopy of CaF₂:Ce³⁺ Crystals Co-doped with Li⁺ or Na⁺

Journal of Luminescence **108** (2004) 307.

Published Papers (before 2003)

Q. X. Guo, M. Nishio, H. Ogawa,

Temperature Effect on the Electronic Structure of AlN

Phys. Rev. B **64** (2001) 113105.

Books

K. Seki, H. Ishii, Y. Ouchi

Functional Organic Materials Studied Using UPS and NEXAFS

in *Chemical Application of Synchrotron Radiation*, p. 386.

H. Ishii, K. Seki

Energy Level Alignment at Organic-Metal Interfaces

in *Conjugated Polymer and Molecular Interfaces*, p. 293.

In Japanese

K. Isari, H. Yoshida, T. Gejo, E. Kobayashi, K. Mase, S. Nagaoka, K. Tanaka

Construction and Evaluation of Coaxially Symmetric Mirror Electron Energy Analyzer with High Sensitivity, and Its Application to Coincidence Spectroscopy

J. Vac. Soc. Jpn. **46** (2003) 377.

H. Watanabe, A. Motogaito, K. Hiramatsu, K. Fukui, Y. Hamamura, K. Tadatomo

Characterization of Optical Filters and GaN Based Schottky Ultraviolet Detector in Vacuum Ultraviolet and Soft X-ray Region

Technical Report of IEICE **103** (2003) 5.

S. Kameda, H. Sagawa, T. Murachi, A. Yamazaki, I. Yoshikawa, M. Nakamura

Development of Multilayer Gratings for Spectroscopy of Mercury's Atmosphere

ISAS Res. **124** (2003) 1.

E. Kobayashi, K. Isari, M. Mori, K. Mase, K. Okudaira, K. Tanaka, N. Ueno

Construction and Evaluation of Polar-Angle-Resolved Miniature Time-of-Flight Ion Mass Spectrometer, and Its Application for Electron-Ion Coincidence Spectroscopy

J. Vac. Soc. Jpn **47**, No. 1 (2004) 14.