

## 利用者実験リスト

SPring-8の放射光共同利用研究は1997年10月に開始された。その後、毎年2回共同利用研究課題が募集され実験が行われている。この年報には第5回2000A（2000年1月から6月まで）と第6回2000B（2000年7月から12月まで）に実施された共同利用研究課題の表題が纏められている。このリストの内容は、実験後60日以内に利用実験者からSPring-8に寄せられた短い報告書である。これは既に発行された『SPring-8 User Experiment Report』（英文）とインターネットのホームページ

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に掲載されている。

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Structure Analysis of Single-Crystal $\text{SiO}_2$ Films on Ni(111) and Si(001)	H. Tajiri
Direct phase measurement of x-ray specular reflection using the modulation under the Bragg condition	W. Yashiro
Measurement of Multiple Energy X-ray Holography	S. Kusano
Nuclear Forward Scattering of Artificially Fabricated Fe Ultra-fine Magnet	S. Nasu
Study on Dynamics of Fe Ions in the Iron-metabolic System by Using Nuclear Quasielastic and Inelastic Scattering	M. Seto
Structure of Langmuir-Blodgett Film Revealed by Anomalous X-Ray Diffraction	K. Akimoto
Nuclear resonant scattering study of quasicrystal $\text{i-Al}_{62}\text{Cu}_{25.5}\text{Fe}_{12.5}$ and tetragonal crystal $\omega\text{-Al}_{70}\text{Cu}_{20}\text{Fe}_{10}$	K. Shibata
Grazing-incidence x-ray diffraction from a silicon wafer covered with a thin $\text{SiO}_2$ film	Y. Kudo
Study on Local Vibrational Densities of States Using Element and Site Specific Nuclear Resonant Inelastic Scattering and Development of the Measuring Methods	M. Seto

Energy Resolved Nuclear Resonance Scattering	R. Callens
X-ray Diffraction Measurements of Internal Strain in Si Nanostructure	T. Shimura
Study of vibrational dynamics of transition metal-metalloid metallic glasses	A. Gupta
Characterization of the SiON/Si interface with X-ray CTR scattering	N. Awaji
Structure analysis at solid liquid interfaces : Underpotential deposition of copper on Pt(111) and Au(111) electrodes in sulfuric acid solution	M. Nakamura
Direct phase determination of multiple diffraction using an X-ray interferometer	Y. Amemiya
Energy Resolved Nuclear Resonance Scattering using a DAC under High Pressure	R. Callens
Quantitative Measurement of Coherent and Incoherent Decay Process of Excited $^{57}\text{Fe}$ Nuclei	T. Okano
Structural Study of Si/Ge/Si(001) crystals by Measurement of Multiple Energy X-ray Holography	S. Kusano
Elastic and inelastic nuclear resonant scattering of $\text{CuFeS}_2$ under high pressure	H. Kobayashi

### BL10XU

Bulk Modulus Measurement of $\text{C}_3\text{N}_4$ by the X-ray Diffraction under High Pressures	E. Kamijo
Search for Equilibrium Structure of $\text{SnI}_4$ at High Temperature and High Pressure	A. Ohmura
Compression behavior of $\text{CaSiO}_3$ -perovskite	K. Kittaka
Equation of state of $\text{CeCu}_2\text{Ge}_2$ at 10 K	S. Tsuduki
X-ray Absorption Fine Structure of Selenium Free Cluster	M. Yao
Pressure-Induced phase Transition in $\text{Pt}(\text{bqd})_2$ at High Pressure	C. Ogawa
Low-Temperature X-Ray Diffraction Study on High-Pressure Phases of Solid Oxygen	Y. Akahama
Study on Structure Transition to BCC Phase in Titanium under Megabar Pressure	Y. Akahama
Diffraction Experiment of $\text{CaFeO}_3$ under High Pressure Condition	I. Koyama



Powder X-ray diffraction Study on Solid Hydrogen	H. Kawamura
Anomalous Compressibility of Icosahedral Zn-Mg-Dy Quasicrystal	T. Watanuki
The phase relation of FeS in high pressure	T. Yamanaka
Phase transition of GdAs with NaCl-type structure at high pressures	J. Hayashi
Site-selective XAFS Spectroscopy Utilizing a Fluorescence Spectrometer for Model Systems of Copper Catalysts	F. Kiyotaki
Polarization Dependence of the Local Structure of Crystal Thin Film of Alkali Halides	T. Murata
Crystal structure of BeO under high pressure	Y. Mori
Direct Observation of the Pressure Induced Orbital Order in Layered-type Doped Manganites	M. Takata
X-ray Absorption Fine Structure of Selenium Free Cluster	M. Yao
Low-Temperature X-Ray Diffraction Study on High-Pressure Phases of Solid Oxygen	Y. Akahama
Theoretical formalization of capacitance XAFS measurement	M. Ishii
Powder X-ray Diffraction of Solid Hydrogen	H. Kawamura
Observation of Ti atoms by X-ray fluorescence holography	K. Hayashi
K-XAFS study on implanted arsenic in silicon using a 19 -element solid state detector	M. Takemura
The Valence-fluctuating State in YbInAu <sub>2</sub> Compound under High Pressure	M. Kurisu
Study of Dimer Structure under High Pressure	H. Dam
X-ray diffraction study of SnI <sub>4</sub> at high temperature and high pressure	K. Sato
Study of Structural Anomaly in Pt(bqd) <sub>2</sub> under High Pressure	C. Ogawa
X-ray Diffraction Experiment at Low Temperature of $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> under High Pressure	T. Yamada
Electron Density Distribution Analysis of s-d Transition in Cesium by MEM	Y. Ohishi
Pressure calibration under high temperature and high pressure using Laser-heated Diamond Anvil Cell System	M. Isshiki

### BL11XU

Pressure Dependence of the Structure of Liquid Gallium Antimonide	K. Tsuji
Intensity correlation of SR photons and it's applications	T. Mitsui
Vibrational Density of State of the thin film of Fe <sup>57</sup>	T. Tanaka
Nuclear-Resonance Scattering of Fe-Base Amorphous Alloy	Y. Kobayashi
Nuclear Resonant Inelastic Scattering of CeFeO <sub>3</sub> under High Pressure	T. Yamada

### BL14B1

<i>In situ</i> SXS Study of Electrodeposition Process of Pd on Au(100) Electrode	K. Uosaki
Pressure Induced Structural Transition in 3-Leg Spin Ladder Compound Sr <sub>2</sub> Cu <sub>3</sub> O <sub>5</sub>	M. Azuma
XAFS study of GeO <sub>2</sub> under Pressure	O. Ohtaka
Kinetics of quartz-to-coesite transformation by time resolved X-ray diffraction experiments	T. Fujisawa
Structural Study of Liquid Silicon under Pressure Using Angle-Dispersive X-Ray Diffraction	K. Tsuji
Refined structural analysis of lipid monolayers on a silicon wafer as a function of the humidity: an X-ray reflectivity and grazing incidence X-ray diffraction study	J. Bolze
XAFS study of GeO <sub>2</sub> glass under Pressure	O. Ohtaka
In-situ observation of liquid GeO <sub>2</sub> under high-pressure and high-temperature conditions	T. Hattori
In situ Structural Study of Self-Assembled Monolayers by Surface X-ray Scattering	T. Kondo
Single Crystal Growth of Transition Metal Oxides at High Pressures of Several GPa	M. Azuma

### BL20B2

Production of x-ray microbeam with a grazing incidence mirror	A. Takeuchi
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Development of high energy synchrotron radiation topography	S. Iida
Production of highly collimated x-rays of less than 0.01" angular divergence for plane-wave x-ray topography	S. Kimura
A study of three-dimensional structures of chondrules by an XTM	A. Tsuchiyama
AN XTM study of analogues for samples returned by MUSES-C mission	A. Tsuchiyama
Development of Large-Area X-ray Topography to Observe 300mm-diameter Silicon Crystals	S. Kawado
Development of micro-angiography system for stereoscopic analysis of microcirculation	K. Umetani
Development of micro-angiography system for observation and analysis of microcirculation	K. Umetani
Development of a novel bone radiography by means of X-ray phase contrast	K. Mori
Study of Phase Contrast Imaging Depending upon Difference of Electron Density	Y. Yokoyama
Evaluation of Density Contrast in Monochromatic X-ray CT Images	M. Torikoshi
TEST OF ULTRA-SMALL-ANGLE SCATTERING EXPERIMENTS USING A MEDIUM-LENGTH BEAMLINE	N. Yagi
Evaluation of High-resolution CT apparatus using Heitzman Preparations	N. Yagi
ZERNIKE PHASE CONTRAST MICROSCOPY EXPERIMENTS USING X-RAY REFRACTIVE LENSES	Y. Kohmura
A study of 3-dimensional structure of melt and void in rocks by XTM	T. Nakano
Topographic observation of structure of rubber composite materials by means of X-ray refraction effect	Y. Chikaura
Development of direct observation method of solidification procedure of metallic alloys	I. Ohnaka
Microangiography using Gadolinium as a contrast agent ---- as a preliminary study for dualcontrast microangiography	E. Tanaka
Experimental studies of microangioarchitecture of tumors using synchrotron radiation at SPring-8	T. Yamashita
Development of X-Ray Zooming Optics II	M. Ando
Development of Characterization Technique of SOI wafers by X-ray Topography	T. Shimura

Ultra high-resolution CT with a monochromatic synchrotron radiation system : Normal anatomy of lung	T. Johkoh
The Structural Analysis of Dual Vessels in the Organ Using Dual Contrast Materials	C. Tsuji
Development of micro-angiography system for observation and analysis of microcirculation	K. Umetani
Evaluation of bone metabolic state by analysis of three-dimensional trabecular structure and mineralization	M. Ito
Performance Test of X-ray Microbeam with Fresnel Zone Plate	Y. Suzuki
High Sensitivity Refraction Contrast X-Ray Imaging with Analyzer Crystal	S. Fujikawa
An XTM study of spiral garnets in a metamorphic rock	A. Tsuchiyama
Three-dimensional structures of prolate chondrules and their motion in the solar nebula gas	A. Tsuchiyama
Microangiographic Determination Using SPring-8 Synchrotron Radiation in Dilated Cardiomyopathy	T. Shimizu
Characterization of 300mm-diameter Silicon Crystals by Large-Area X-ray Topography	S. Kawado
Far field observation of plane wave synchrotron radiation topographic images	S. Iida
Microstructural analysis of trabecular bone using monochromatized X-ray CT in bone metastasis from prostate cancer	T. Sone
Experimental studies of the microangioarchitecture of tumors using monochromatic X-ray	T. Yamashita
Evaluation of Rat's Trabecular Bone Microstructure Using X-ray Micro-Tomography with Synchrotron Radiation	Y. Itai
Microvasculature of Hepatic Tumors	M. Hori
Development of direct observation of porosity formation in Al alloys	I. Ohnaka
A study of 3-dimensional structure of melt and void in rocks by an XTM	T. Nakano
PHASE-SHIFT MEASUREMENT USING ZERNIKE PHASE CONTRAST MICROSCOPE WITH AN X-RAY REFRACTIVE LENS	Y. Kohmura
Measurement of metastatic bone tumors using refraction-contrast imaging	M. Hirano
Radiation dose and spatial resolution evaluation in SR imaging	M. Hirano

Measurement of Electron Density by Monochromatic X-ray CT Scan with Several Energy X-rays	M. Torikoshi
Tomographic observation of structure of rubber composite materials by means of X-ray refraction effect	Y. Chikaura
Development of X-ray Zooming Optics III	H. Sugiyama

#### BL23SU

Double excitation in the K photoabsorption of Ne	H. Yamaoka
XANES and EPR study for DNA related compounds and amino acids around oxygen K-edge	A. Yokoya
Inner-shell photoabsorption experiments on ionic light elements	M. Oura
Oxygen inner-shell absorption spectra of evaporated films of amino acids and trial detection of XNCD	M. Tanaka

#### BL25SU

Investigation of structure and magnetism of the Cr/Fe interface by photoelectron diffraction	W. Kuch
Photoemission and MCD of $\text{Ni}_2\text{MnGa}$ and $\text{Co}_2\text{XSn}$ (X=Nb, Zr, Ti)	S. Imada
Rare-earth magnetic moment and electronic states of pyrochlore-type $\text{R}_2\text{Mo}_2\text{O}_7$	S. Imada
High resolution photoemission spectroscopy of bulk electronic states of Kondo material $\text{YbAl}_3$	S. Suga
High resolution photoemission and core absorption magnetic circular dichroism of Sm pnictides and chalcogenides	S. Suga
Spin polarized photoemission and circular dichroism of photoemission angular distribution excited by circularly polarized light at BL25SU: Instrumentation and measurements	S. Suga
Temperature dependence of Yb $4f$ spectra in $\text{Yb}_4(\text{As}_{1-x}\text{Z}_x)_3$ (Z=P, Sb) by high-energy and high-resolution photoemission	A. Sekiyama
High-resolution Photoemission Study of Superconducting $\text{Sr}_2\text{RuO}_4$ and Non-Superconducting $\text{Sr}_{1.8}\text{Ca}_{0.2}\text{RuO}_4$	A. Sekiyama

High-resolution Ce $3d$ - $4f$ Resonance Photoemission Study of Considerably Hybridized CeNi	A. Sekiyama
Soft X-ray Magnetic Circular Dichroism In Mnganite	M. Mizumaki
Study of the Electronic Structure of $\text{RESrNiO}_4$ by Means of High-Resolution Photoemission Spectroscopy and X-Ray Absorption Spectroscopy	H. Ikuta
$3d$ Edge Resonance Photoelectron Spectroscopy Study of High Kondo Temperature Cerium Compounds and pure Ce	R. Jung
Bulk-Sensitive High-Resolution Soft X-Ray Photoelectron Spectra of Heusler-type $\text{Fe}_2\text{VAI}$ Intermetallic Compound	K. Soda
Magnetic Circular Dichroism (MCD) of $\text{LaMn}_{1-x}\text{Al}_x\text{O}_{3+\delta}$ with $x=0$ to 0.2 series of samples	A. Banerjee
High-resolution B 1s Core-Level Photoemission Study of $\text{RB}_6$ ( $R=\text{Ce}, \text{Sm}$ )	A. Sekiyama
Circularly-polarized light photoelectron holography on Si(001)	T. Nakatani
Two-dimensional circularly-polarized light photoelectron diffraction on Fe/W(110)	M. Kotsugi
Spin-exchange scattering photoelectron diffraction excited by circularly-polarized light	M. Kotsugi
Precursor non-magnetic states of $\text{PrFe}_4\text{P}_{12}$ and $\text{DePd}_3$ detected by core excitation MCD	T. Miyahara
$3d$ Edge Resonance Photoelectron Spectroscopy Study of Cerium Compounds	B. Choi
Soft X-ray Magnetic Circular Dichroism In Mnganite	M. Mizumaki
Magnetic moment of Ni in single crystal NiGd and $\text{Ni}_2\text{Gd}$ intermetallic compounds using soft X-ray MCD	K. Yano
Investigation of the electronic structure of perovskite manganites by the Bulk sensitive x-ray photoemission spectroscopy	T. Takeuchi
Resonant Photoemission of Strongly Correlated Transition-Metal and Rare-Earth Alloy Systems at the Transition-Metal $2p$ and Rare-Earth $3d$ Edges	H. Kim
Bulk sensitive, angle resolved, high resolution photoemission spectroscopy: instrumentation and experiments on correlated materials	S. Suga
High resolution bulk sensitive photoemission studies of $\text{YbB}_{12}$ and $\text{Yb}_{1-x}\text{Lu}_x\text{B}_{12}$	S. Suga
High resolution bulk sensitive photoemission of $\text{Nd}_{1-x-y}\text{Sr}_x\text{Ce}_y\text{MnO}_3$	S. Suga

Mechanism of the breakdown of Anderson impurity model in the crossover from Kondo state to valence fluctuating state in Ce 4f electronic states	S. Imada
High-Resolution Soft X-Ray Photoelectron Spectroscopy of Fe <sub>2</sub> VAl and Fe <sub>3</sub> Al	K. Soda
Temperature-Dependent High-Resolution Yb 4f Photoemission Spectra of YbInCu <sub>4</sub>	H. Sato
Magnetic X-ray Circular Dichroism Study of the Ferromagnetic Chromium Tellurides	K. Yaji
Stereoscopic Photographs of Si(111) Surface	T. Nakatani
Spin-polarized photoelectron diffraction from Gd/W(110)	M. Hibi
Spin-polarized photoelectron diffraction from Cr/Fe/W(110)	S. Okamoto
Soft-X-Ray Magnetic Circular Dichroism in DyCo <sub>5,4</sub>	T. Nakamura

### BL27SU

Instrumentation of high-resolution resonant Auger electron spectroscopy for investigating nuclear motion in the core-excited states of molecules	Y. Shimizu
Improvement in resolving powder and stability of the soft X-ray grating monochromator installed on BL27SU	E. Ishiguro
Microbeam focusing of soft X-ray undulator light using an elliptically bent mirror	E. Ishiguro
Preparation and Etching of Oxide Thin Films	M. Shimizu
Preparation and Etching of SiO <sub>2</sub> and Si <sub>3</sub> N <sub>4</sub> by using SR	T. Kanashima
Evaporation and Expansion of Poly-tetra-fluoro-ethylene Induced by irradiation of Soft X-ray from Figure-8 Undulator	O. Maida
Study on site-specific fragmentation of polyatomic molecules induced by K-shell excitation using Auger electron-photoion coincidence spectroscopy	Y. Tamenori
Development of method to determine the photon-beam axis of SR from figure-8 undulator by means of inner-shell photoionization of rare gas-II	M. Oura
Dissociation Dynamics of Inner-Shell Excited Molecules by Means of Precise Measurements of Recoil Momenta of Fragment Ions	Y. Muramatsu
Study on symmetry of core-excited states of polyatomic molecules by high-resolution angle-resolved ion-yield measurements	H. Yoshida

Vibrational State Dependence in Dissociation Processes of Core Excited Nitrogen Molecule	A. Hiraya
Anisotropy in Resonant Auger Electron Emission from Rare Gas Atoms and Diatomic Molecules	I. H. Suzuki
Preparation and Etching of Oxide Thin Films	M. Shimizu
State- and Site- Selective Dissociation Processes of Core-excited Methanol	T. Tokushima
Symmetry breaking of tetrafluorosilane molecule by F 1s excitation	K. Okada
Characterization of soft x-ray induced change of fluorocarbon polymer and high speed deposition	T. Kanashima
Preparation of ZrO <sub>2</sub> , HfO <sub>2</sub> and PZT thin films for ULSI gate insulator by using SR	M. Okuyama
Preparation for the measurements of the inner-shell photo-electron angular distributions from oriented molecules	H. Chiba
Reaction of Thin Films Excited by High Flux Soft X-rays	T. Kanashima
Improvement in resolving power and stability of the soft X-ray grating monochromator installed on BL27SU	E. Ishiguro
Dissociation dynamics of inner-shell excited N <sub>2</sub> O molecule by means of recoil momentum measurements of fragment ions with 2-dimensional detectors	N. Saito
Study on site-specific fragmentation of polyatomic molecules induced by K-shell excitation using Auger electron-photoion coincidence spectroscopy	Y. Tamenori
Soft X-ray spectroscopic studies of surfaces under total reflection condition	Y. Takata
Nuclear motion of a core-excited CO <sub>2</sub> molecule probed by subnatural-linewidth resonant Auger electron spectroscopy	Y. Muramatsu

### **BL28B2**

Detection of microdefects in Si crystals by means of high-energy section topography	S. Kimura
Evaluation of re-appearance sites of interstitial type dislocation loops grown as vacancy source by means of a microscope with digital CCD camera	K. Mizuno
Development of Low Temperature Laue Topography at BL28B2	T. Ozaki



Topographic Study on Structural Radiation in ZnSe and ZnTe Crystals at High Temperature	Y. Chikaura
Assessment and instrumentation on the high-temperature SXR topography in the BL28B2 station	Y. Chikaura
Energy-dispersive SSD OR-topography and its application to observations of lattice orientation distribution in Fe-Si single crystals	Y. Chikaura
White X-ray Scattering Topographic Observation for GaN on GaAs using Micro beam	Y. Suzuki
White X-ray Topography on Silicon Carbide Crystals	H. Yamaguchi
Characterization and Determination of the Structure of the Lattice Defects in Organic Crystals by Laue Topography	K. Izumi
Evaluation of the absorber for BL28B2 by Laue topography of the protein crystals	K. Izumi
X-ray imaging study by using synchrotron radiation white x-ray	K. Kobayashi
Characterization of Gold Nanocrystals for Single Molecular Detection Systems using X-rays	Y. Sasaki
Seed technology for next generation synthetic quartz for 5 inch diameter surface acoustic wave device substrates	C. K. Suzuki
Development of high-speed micro-imaging system	K. Umetani
Assessment and Instrumental Research on the Fast Shutter for White X-ray Flush Topography	K. Kajiwara
Try to observation of the back Laue pattern of a single-crystal SiO <sub>2</sub> film on the Ni(111) surface	T. Takahashi
X-ray Topographic Study on SiC	H. Yamaguchi
Development of high energy synchrotron radiation Lang topography	S. Kimura
Laue Topographic Studies on the Protein Crystals Grown under a Magnetic Field	G. Sasaki
Evaluation of the Quality Metal Protein Crystals by X-ray Topography	M. Ataka
Low Temperature Laue Topography of La-Doped SrTiO <sub>3</sub>	T. Ozaki
White X-ray Scattering Topographic Observation for GaN on GaAs using Micro beam	Y. Suzuki

Development of SR-Microbeam Shaping and the Scanning with High Energy White Spectrum for Scattering Topography	Y. Chikaura
Topographic Study on Structural Relaxation in Fe-Si, GaAs, ZnSe and ZnTe Crystals at high Temperature	Y. Chikaura
Characterization and Determination of the Structure of the lattice Defects in Organic Crystals by Laue Topography	K. Izumi

### BL39XU

Improvement in signal to background ratio for ultra trace analysis by total-reflection X-ray fluorescence: Reducing parasitic X-rays due to air-particulates in the experimental hut	K. Sakurai
Observation of Circular Dichroism in YBCO Superconductor	H. Maruyama
Generation of a hard x-ray microbeam using a Kirkpatrick and Baez mirror system	S. Hayakawa
XRF and EXAFS measurements of synthetic diamonds grown with the metallic solvent and additional nitrogen getter	S. Hayakawa
X-ray Fluorescence Mapping and XANES Analysis of Cadmium in Tissue Section of Rat Kidney	J. Kawai
Chemical State Imaging of Tissues From a Guamanian Patient with Parkinsonism-dementia complex	S. Yoshida
Micro XRF imaging and micro XAFS studies in a single cell level	A. Motamed Ektessabi
In-vivo, in-situ, micro XRF imaging of a single living cell(II)	A. Motamed Ektessabi
Ce 5d Induced magnetic profile profile in CeH <sub>2</sub> /Fe multilayers probe by XRMS	N. Jaouen
Metamagnetic Phase Transition in CeSb - An XMCD Study under High Fields at Low Temperatures-	H. Maruyama
Study on the electronic states in Gd <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> probed by Resonant Inelastic X-Ray Scattering	N. Kawamura
MCD measurements of Fe <sub>4</sub> N at Fe K-edge under high pressure	N. Ishimatsu
Direct Observation of Magnetic Moments Reversal of Holmium Iron Garnet at The Compensation Temperature by X-ray Magnetic Diffraction	M. Ito
The determination of magnetic structure in Ce(Fe <sub>1-x</sub> Co <sub>x</sub> ) <sub>2</sub> by the magnetic EXAFS	M. Mizumaki

Magnetic Field-induced Phase Transition in Perovskite Oxide $\text{Eu}_{1-x}\text{Sr}_x\text{MnO}_3$	S. Nakamura
Study of Electronic States in 3d Transition-Metal Oxides by X-Ray Resonance Magnetic Scattering	K. Namikawa
Element-selective magnetization process of an Er/Tb superlattice studied by XMCD	H. Yamazaki
XMCD study of amorphous $\text{Gd}_{65}\text{Co}_{35}$	I. Nakai
Magnetic Field Dependence of Mn <i>K</i> -Edge XMCD in $\text{Mn}_3\text{MC}$ ( $M=\text{Zn}$ and $\text{Ga}$ ) Perovskites	H. Maruyama
X-ray fluorescence holography of high $T_c$ superconductors	M. Terasawa
X-ray magnetic circular dichroism in pyrochlore-type Mn compounds	K. Kobayashi
Ultra trace analysis using an x-ray microprobe	S. Hayakawa
In-vivo and in-situ micro XRF analysis of living single neurons	A. Ide
XANES in a single motor neuron from patients with amyotrophic lateral sclerosis (ALS)	S. Yoshida
XMCD study of amorphous $\text{Gd}_{67}\text{Ni}_{33}$	Y. Murakami
X-Ray Fluorescence Analysis of Cadmium distribution in Tissue Section of Itai-itai disease kidney	K. Takagawa
Polarization effect of X-ray fluorescence hologram	K. Hayashi
X-ray Magnetic Circular Dichroism in Quasicrystals	Y. Watanabe
Establishment of Detection Bases for X-ray Photoacoustic Spectroscopy using SR at High Brilliance	T. Masujima
X-ray standing wave investigation of Ni/C multilayers	K. Sakurai
XACD Spectrum in $\text{Ho}_3\text{Fe}_5\text{O}_{12}$ at High Temperatures	H. Maruyama
Circular Dichroism in High- $T_c$ Superconductors	H. Maruyama
X-ray diffraction analysis of micro-crystals by using Gandolfi camera	I. Nakai
Magnetic Circular Dichroism of Fe $K\beta_{1,3}$ X-Ray Emission Spectrum in $\text{Fe}_3\text{O}_4$	N. Kawamura
MCD measurements of $\text{Fe}_4\text{N}$ at Fe <i>K</i> -edge under high pressure: Part II	N. Ishimatsu
Trace element distribution and chemicalstate analysis of nodules in Ryukyu Limestone	N. Haga

## BL40B2

Structure Analysis of the catalytic domain of amidase from <i>Bacillus</i> sp.	T. Yamane
Protein crystallographic studies of L and R type flagellin fragments	K. Imada
Establishment of collimation system for fiber diffraction and SAXS data collection at BL40B2	K. Hasegawa
Structural analysis of $\gamma$ -glutamylcysteine synthetase from <i>Escherichia coli</i> B	T. Hibi
Study on structural change of Prostaglandin D synthase with X-ray small angle scattering	K. Inoue
Effect of X-ray energy on the reflection intensities and radiation damage of skeletal muscle specimens	H. Iwamoto
Structural fluctuations and membrane undulations in complex fluids involving amphiphiles	T. Takeda
X-ray fiber diffraction from well oriented sols of F-actin and Native Thin Filament	K. Makino
X-ray Crystal Structure Determination of Prenyltransferase	M. Fujihashi
X-ray Structural Analyses for a Series of Mutant Human Lysozymes	K. Takano
Crystallographic study on protein splicing mechanism of yeast Vma1 endonuclease	R. Mizutani
Investigation of Structure of Ultra-long Period in Synthetic Fibers	K. Tashiro
An attempt of 2-D crystalization of sensory rhodopsin II by hybridization of bacteriorhodopsin	F. Tokunaga
X-ray Crystallographic Analysis of Japanese Pear S-RNase	S. Norioka
Structural analysis on substrate recognition mechanism of 2,3-butanediol dehydrogenase	G. Kurisu
X-Ray Crystallographic Study of Glyceraldehyde-3-phosphate Dehydrogenase from Cyanobacteria	T. Tada
Collection of X-ray diffraction data from crystals of a microbial chitinase at atomic resolution	F. Iwamori
Protein Crystallographic Study of Heme Binding Protein	K. Imada
Structural analysis of Spinach RuBisCO to promote oxygenase reaction	Y. Kai

Structural comparison of <i>Galdieria partita</i> RuBisCOs in inactive, active, and activated liganded states	Y. Kai
X-ray Structure analysis of human hematopoietic prostaglandin Dsynthase complexed with a PGH2 analogue	Y. Kai
Data Collection of Se-Met derivative of Adenylate Kinase from <i>Sulfolobus solfataricus</i>	M. Watanabe
Crystallographic study on protein splicing mechanism of yeast Vma1 endonuclease using CCD detector	R. Mizutani
Evaluation of diffraction data from a 2,3-butanediol dehydrogenase crystal collected using a CCD detector and an IP detector	G. Kurisu
Estimation of the X-ray data collected by an ADSC CCD Quantum 4R camera in order to determine the crystal structure of the active domain of amidase from <i>Bacillus</i> sp.	T. Yamane
High resolution X-ray diffraction data collection of [4Fe-4S] Ferredoxin	Y. Kakuta
Evaluation of X-ray diffraction data recorded on an ADSC CCD detector at BL40B2	K. Imada
Crystal Structure Analysis of Diol Dehydratase without Substrate	T. Toraya
Structural analysis of bacterial transporter protein	T. Nakae
High resolution X-ray diffraction study of purple membrane	T. Oka
Structure Analyses of Collagen Model Peptide, (Xaa-Yaa-Gly) <sub>n</sub>	K. Okuyama
Study of Ge-Doped VAD Vitreous Silica Preform for Optical Fiber by the Anomalous SAXS Technique	A. H. Shinohara
SAXS Measurements of the mutant proteins of PYP whose chromophore thermal isomerization processes are retarded	J. Sasaki
Small Angle X-ray Scattering Measurements of Sensory Rhodopsin and the Transducer Complex	J. Sasaki
X-Ray crystallographic study of glyceraldehyde-3-phosphate dehydrogenase.	T. Tada
Crystal structure analysis of small heat shock protein	S. Ha
X-ray Crystal Analysis of $\alpha\beta\gamma\epsilon$ sub-complex of F1-ATPase from a Thermophilic bacterium	Y. Shirakihara
X-ray crystal analysis of repressor protein CamR that controls transcription of Camphor decomposing operon	Y. Shirakihara

Crystal structure analysis of lectin from algae	K. Katayanagi
Crystallographic studies of chitinase C from <i>Streptomyces griseus</i>	Y. Kezuka
Small and Wide Angle X-ray Scattering from Scizophyllan/Polynucleotide Complexes	K. Sakurai
X-ray crystallography of a novel thermostable beta-galactosidase	S. Fushinobu
Multiple-isomorphous Replacement Analysis of Ultra-thin Membrane Protein Crystals with XAFS Measurements	C. Toyoshima
Crystal Structure Analysis of Glycerol-3-Phosphate Acyltransferase (GPAT)	T. Tamada
Crystal Structure Analysis of PDZ2 domain of FAP-1	T. Tamada
X-ray Structure analysis of human hematopoietic prostaglandin D synthase, as glutathione S transferase, complexed with CDNB	Y. Kai
Structural analysis of the mechanism to control activation of spinach RuBisCO	Y. Kai
Measurement of X-ray fiber diffraction data of the bacterial flagellar filament at BL40B2	K. Hasegawa
Protein crystallographic studies of the flagellar HAP2 complex	K. Imada
Preliminary X-ray diffraction studies of HutP protein: An RNA binding protein that regulates hut operon by transcriptional antitermination mechanism in <i>Bacillus subtilis</i>	T. Kumaravel
Crystal structure analysis of monomeric isocitrate dehydrogenase	Y. Yasutake
Determination of X-ray Crystal Structure of Tryptophan Synthase $\alpha$ , $\beta_1$ , and $\alpha_2\beta_2$ Complex from Hyperthermophile, <i>Pyrococcus furiosus</i>	K. Yutani
Hydration Structure on Protein Surface by Cryo X-ray Analysis of Mutant Human Lysozymes	K. Takano
Solution X-ray scattering measurements of the reassembled dimer of an integral membrane protein OmpF Porin	Y. Watanabe
Structural studies of nuclear transport proteins	S. Lee
X-ray Crystallographic study of medium chain acyl-CoA dehydrogenase	I. Miyahara
X-ray Crystallographic Study of Vesicular Assembly of Light-Harvesting Chlorophyll a/b Protein Complex	T. Hino
CRYSTAL STRUCTURE ANALYSIS OF BIPHENYL DIOXYGENASE	N. Venugopalan

Crystal structure analysis of an autoregulator-receptor protein in <i>Streptomyces</i> species	R. Natsume
Structural fluctuations and membrane undulations in complex fluids involving amphiphiles	T. Takeda
X-ray Crystallographic Analysis of the Muscle Regulatory Protein Complex with MAD method	S. Takeda
Study on structural change of Prostaglandin D synthase induced by denaturants	K. Inoue
Studies on the function of Chaperonin GroEL	K. Inoue
X-ray fiber diffraction from well oriented sols of F-actin and Native Thin Filament	K. Makino
Three-dimensional structure of <i>Escherichia coli</i> MutT	Y. Yamagata

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Wavelength-dispersive X-ray fluorescence experiments with quasi-monochromatic high-flux X-ray photons	K. Sakurai
New Single Molecular Detection System using Total Reflected X-rays	Y. Sasaki
Measurement of ID gap dependency for gas bremsstrahlung production	Y. Asano
TEST OF TIME-RESOLVED X-RAY DIFFRACTION EXPERIMENTS USING THE HIGH-FLUX BEAMLIN	N. Yagi
Structural Change and Reconstitution Process of Proteins Observed by Temperature-Jump Small Angle X-ray Scattering Measurements. Part I : Feasibility Test of the Device and Installation of Analytical Program SAXSANA.	Y. Hiragi
Instrument for high time resolution X-ray diffraction recordings from muscle specimens	H. Iwamoto
Preliminary experiment for time-resolved protein crystallography with high-flux quasi-monochromatic X-rays	S. Adachi
Stopped-Flow SAXS Studies on Molecular Recognition of Calmodulin/Target	Y. Izumi
Developments of time resolved X-ray diffraction and scattering measurements system using laser as a reaction trigger	T. Oka
Study on dynamics of a block copolymer chain during its order-disorder transition induced by pressure jump	M. Takenaka

Study on dynamics of a block copolymer chain during its order-disorder transition induced by pressure jump	M. Takenaka
Study on dynamics of a block copolymer chain during its order-disorder transition induced by pressure jump	M. Takenaka
Total-Reflected X-ray Tracking (TXT)	Y. Sasaki
Observation of Dynamic Speckle using High Flux Beamline	N. Yagi
STRUCTURAL CHANGES OF MYOFILAMENTS DURING MUSCLE SHORTENING	N. Yagi
Two-dimensional X-ray diffraction pattern from living mammalian skeletal muscle: Comparison between rest and contraction	H. Iwamoto
Investigation of crystallization process in polymer blend by time- and spatial- resolved SAXS	Y. Nozue
SAXS and WAXS measurements of the inequilibrium state of polymers and biomembrances using a fine slit system	T. Asano
Detection of extreme trace metals by means of a wavelength-dispersive total-reflection X-ray fluorescence spectrometer	K. Sakurai
Structural Development of Natural Rubber during drawing by <i>in situ</i> Wide-Angle X-ray Diffraction Measurement	S. Murakami
Time-resolved protein crystallography with high-flux quasi-monochromatic X-rays	S. Adachi

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High resolution data collection for colicin E7 and malic enzyme	L. C. Tsai
X-ray crystallographic analysis of fatty acid $\beta$ -oxidation multienzyme complex	M. Ishikawa
STRUCTURAL ANALYSIS OF REGULATORY MECHANISIM OF GTP CYCLOHYDROLASE I CONTROLLED BY A REGULATORY SUBUNIT, GFRP	N. Maita
The 2.0Å crystal structure of the <i>Thermus thermophilus</i> CsaA protein with dual, chaperone-like and tRNA-binding, function	S. Kawaguchi
Crystal structural analysis of reduced FMN-binding protein at atomic resolution	K. Suto



High-resolution crystal structural analysis of diol dehydratase-cyanocobalamin complex	N. Shibata
X-ray crystallographic study of p67 <sup>phox</sup> TPR domain	M. Nishida
X-ray crystallography of <i>Thermus thermophilus</i> glutamyl-tRNA synthetase complexed with the cognate tRNA	S. Sekine
Protein crystallographic studies of flagellar HAP2 and F41 fragment of flagellin	K. Imada
Evaluation of the new slit system introduced at BL41XU in its use for fiber diffraction from the bacterial flagellar filaments	K. Hasegawa
Crystal Structure Analysis of Oxygen-Evolving Photosystem II Complex	J. Shen
Test for the On-line IP Reader of MIROAS diffractometer	Y. Kawano
The flexibility of protein molecule in terms of the crystallography of DHFR mutants	K. Katayanagi
Structural analysis of F-actin and Native Thin Filament by X-ray fiber diffraction	K. Makino
X-ray Crystallography of Ultra-thin Membrane Protein Crystals	C. Toyoshima
Crystal Structure Analysis of TPO/Fab complex	T. Tamada
Crystal Structure Analysis of PDZ2 domain of FAP-1	T. Tamada
Structural study of cooperative binding mechanism of c-Myb proteins to consensus and flanking DNA	T. Tahirov
Structural study of cooperative DNA recognition by CBF	T. Tahirov
Structural study of methylated DNA recognition by MECP2 in transcriptional repression	T. Tahirov
X-Ray Crystallographic Study of Fructose 1,6-bisphosphatases from Cyanobacteria	T. Tada
High Resolution Data Collection for Glyceraldehyde-3-phosphate Dehydrogenase from Cyanobacteria	T. Tada
High-Resolution Crystal Structure Analysis of Archaeal Rubisco Protein Having a New-Type Architecture for Supramolecular Complex	K. Kitano
X-ray Crystal Structure Determination of Thermosome from Hyperthermophilic Archaea	Y. Shomura
X-Ray Crystallographic Studies of Bacteriorhodopsin	H. H. Luecke

X-ray Crystal Analysis of $\alpha_3\beta_3\gamma$ sub-complex of F1-ATPase from a Thermophilic bacterium	Y. Shirakihara
Determination of X-ray Crystal Structure of Tryptophan Synthase $\alpha$ , $\beta$ , Subunits and $\alpha_2\beta_2$ Complex from Hyperthermophile	K. Yutani
Crystal structure analysis of monomeric isocitrate dehydrogenase	Y. Yasutake
Analysis of reaction mechanism of ACC deaminase from bacteria <i>Pseudomonas</i> sp. ACP by X-ray crystallography	A. Fujino
Crystal Structure Analysis of Ribonuclease MC1 complexed with substrate analog at Ultra-high Resolution	A. Suzuki
Structural analysis of phosphoenolpyruvate carboxylase in complex with the substrate analog	Y. Kai
High Resolutional Structure Analysis of Human Hematopoietic Prostaglandin D Synthase Complex with Inhibitors	T. Inoue
Structure of Bovine Rhodopsin	G. Schertler
X-ray crystallography of hyperthermophile DNA primase	O. Nureki
X-ray Crystallography of <i>Pyrococcus horikoshii</i> tRNA guanine transglycosylase	O. Nureki
X-ray crystallography of human AUH protein complexed with AU-rich RNA element	O. Nureki
X-ray crystallography of human CENP-B protein complexed with CENP-box DNA	O. Nureki
X-ray crystallographic study on SH3 domain of Vav complexed with Grb2	M. Nishida
X-ray Crystallographic Study of Bacteriorhodopsin's Reaction Intermediates	T. Kouyama
X-ray Crystallographic Study of Disintegrin	H. Shirasaki
CRYSTAL STRUCTURE ANALYSIS OF BIPHENYL DIOXYGENASE	N. Venugopalan
X-ray Crystallographic Analysis of sulfotransferase domain of human heparan sulfate N-deacetylase/N-sulfotransferase	Y. Kakuta
X-ray structure analysis of glutathione-independent formaldehyde dehydrogenase	N. Tanaka
X-ray Analysis of Fdx Involved in the Assembly of Iron-Sulfur Clusters	K. Fukuyama
X-ray structure analysis of a novel hydrolase which interacts with a basal transcription factor TFIID	B. Padmanabhan

Structure determination of sodium-translocating ATPase from <i>Enterococcus hirae</i>	I. Yamato
Crystal Structure Analysis of Oxygen-Evolving Photosystem II Complex	J. Shen
An X-ray Data Collection of the 20S Proteasome from Bovine Liver at the BL41XU	Y. Morimoto
Crystal structure analysis of a zinc-containing formaldehyde dehydrogenase by the MAD method	N. Tanaka
Evaluation of X-radiation damage of protein crystals at 30K	M. Nakasako
High Resolution X-ray Structure Analysis of DsrD protein	N. Mizuno
X-ray crystallography of <i>Thermus thermophilus</i> glutamyl-tRNA synthetase complexed with the cognate tRNA	S. Sekine
X-ray crystallographic analysis of fatty acid $\beta$ -oxidation multienzyme complex	M. Ishikawa
X-ray Crystallographic study of <i>Thermus thermophilus</i> citrate synthase	E. Kanamori
X-ray Crystallographic Study of the K Intermediate of Bacteriorhodopsin	Y. Matsui
Study of the substrate specificity of NfsB, a nitroreductase from <i>Escherichia coli</i> by X-ray crystallography	W. Lee
X-ray Crystallography of Ultra-thin Membrane Protein Crystals	C. Toyoshima
Crystal Structure Analysis of Glycosyltrehalose-hydrolyzing $\alpha$ -amylase from the Hyperthermophilic Archaeum <i>Sulfolobus Solfataricus</i> KM1	T. Tamada
Structural studies on breast cancer susceptibility Protein	Y. Cho
X-Ray Crystallographic Analysis of 4Fe Ferredoxin at Ultrahigh Resolution	K. Fukuyama
Structural analysis of Ribulose 1,5-bisphosphate carboxylase/oxygenase from <i>Chlamydomonas</i>	Y. Kai
Crystallographic study of a 32K fragment of flagellar hook protein	K. Imada
PRELIMINARY CRYSTALLOGRAPHIC ANALYSIS OF THE RHO-BINDING DOMAIN OF BOVINE RHO-KINASE	K. Ihara
Structural analysis of regulatory mechanism of GTP cyclohydrolase I controlled by a regulatory subunit, GFRP	N. Maita
X-ray Crystallographic Study of Disintegrin	Y. Fujii
Crystal structure Analysis of Macrophomate synthase by MAD method	T. Ose

Crystal structure analysis of 23S rRNA-binding protein L13 by MAD method	M. Tanaka
Structural Studies on the Topa Quinone Foration in Copper-Containing Phenylethylamine Oxidase from <i>Arthrobacter globiformis</i>	M. Kim
Crystallographic analysis of Archaeal-type class-I lysyl-tRNA synthetase	O. Nureki
X-ray crystallography of human DNA homologous recombination protein, Rad52	O. Nureki
X-ray crystallographic study of DNA primase from hyperthermophilic archaeon	O. Nureki
X-ray crystallography of <i>Pyrococcus horikoshii</i> tRNA-guanine transglycosylase	O. Nureki
X-ray crystallography of AUH protein in complex with AU-rich element RNA	O. Nureki
X-ray crystallography of the cell surface antigen CD38 complexed with ganglioside	O. Nureki
X-ray crystallography of CENP-B in complex with CENP-B box DNA	O. Nureki
X-ray crystal structure analysis of tyrosine kinase	A. Ogawa
X-Ray Crystallographic Study of Quinone Type Built-in Coenzyme Containing Amine Dehydrogenase	K. Hirotsu
X-ray Crystal Structure Determination of Thermosome from Hyperthermophilic Archaea	Y. Shomura
X-ray Crystallographic Study of Light-Harvesting Choloropyll a/b Protein Complex	T. Hino
3×6 arrayed CCD-based X-ray detector with high-brilliance and high-intensity X-ray	K. Ito
High resolution data collection for Fis mutant V13C	L. Tsai
Structural study on a reductoisomerase from <i>Escherichia coli</i>	S. Yajima
Crystal structure analysis of cell division inhibitor MinD by MAD method	N. Sakai
Structure analysis of fructose-1,6-bisphosphataseI by MAD method using Se-Met derivative	T. Tada
X-Ray Crystallographic Study of Catalase-peroxidase from Cyanobacteria	T. Tada
Crystallographic study of a 32K fragment of flagellar hook protein	K. Imada

Crystal structure analysis of prokaryotic ribosomal protein L5 and 5S rRNA complex	T. Nakashima
Data Collection of Se-Met derivative of $\gamma$ -glutamylcysteine synthetase from <i>Escherichia coli</i> B	T. Hibi
Crystal structure analysis of isopropylmalate isomerase by MAD method	T. Kirita
Crystallization and preliminary X-ray crystallographic study of bleomycin complexed with DNA fragments	O. Matsumoto
X-ray crystallography of RNA polymerase from <i>Thermus thermophilus</i>	S. Sekine
X-ray crystallography of the complex of epidermal growth factor (EGF) and EGF receptor	O. Nureki

### BL43IR

Evaluation of BL43IR surface science station for IRAS study	T. Moriwaki
IR absorption spectra under high temperature and high pressure with DAC	K. Shinoda
Construction of the Absorption and Reflection Spectroscopy Station at Infrared Materials Science Beamline BL43IR	K. Fukui
High Resolution Measurements of CN <sup>-</sup> Vibrational Spectra in CdX <sub>2</sub> :CN <sup>-</sup> Crystals and Evaluation on the BL43IR Absorption-Reflection Station	H. Nakagawa
Time-resolved infrared spectroscopy of organic conductors	H. Okamura
Preparation for time-resolved experiments using synchronized infrared SR and psec pulsed laser at BL43IR	H. Okamura
Development of application techniques and measurements of a disease tissue to FT-IR microscopy (Part I)	N. Miyoshi
Study of high-resolution, transient and far-infrared absorption spectroscopy in slowly varying systems	Y. Kondo
Measurements on the spacial resolution and its wave-length dependence of the microspectroscopy of BL43IR	Y. Kondo
Development of Surface Vibrational Spectroscopy using Synchrotron Radiation and Electron Spectroscopy Techniques	M. Sakurai
Studies on Dynamic Processes of Molecules Adsorbed on Cryogenic Surfaces by Vibrational Spectroscopy	M. Sakurai
Development of infrared microscope at low temperature under high pressure	T. Nanba

Development of application techniques and measurements of a disease tissue to FT-IR microscopy (Part II)	N. Miyoshi
Industrial applications of Micro-infrared Spectroscopy	N. Nagai
Optical Study on Metal-Insulator-Superconducting Transition of Organic Conductor BEDT-TTF Coordination	S. Kimura
Adjustment of magneto-optical station of BL43IR	S. Kimura
IR absorption spectra of minerals under high temperature and high pressure with HTDAC	K. Shinoda
Development of Surface Vibrational Spectroscopy using Synchrotron Radiation and Electron Spectroscopy Techniques	M. Sakurai
Development of infrared microscope under high pressure	T. Nanba
Development of infrared microscope under high pressure at low temperature and application to solid state spectroscopy	T. Nanba
Evaluation of BL43IR surface science station for IRAS study	T. Moriwaki
Infrared Spectroscopy of Black P under High-Pressure	Y. Akahama
The imaging of unreadable <i>Bokusho</i> (carbon ink documents) using FT-IR	Y. Sato
Infrared spectroscopic study on the lattice vibrations in molybdenum oxide $\text{Mo}_4\text{O}_{11}$	H. Negishi
Preparation for time-resolved experiments using synchronized infrared SR and psec pulsed laser at BL43IR	H. Okamura
Laser-excited, time-resolved infrared spectroscopy of GaAs quantum wells	H. Okamura
High Resolution Measurements of CN <sup>-</sup> Vibrational Spectra in CsX:CN <sup>-</sup> (X=Br,I) Crystals and Evaluation on the BL43IR Absorption-Reflection Station	H. Nakagawa
Construction of the Absorption and Reflection Spectroscopy Station at Infrared Materials Science Beamline BL43IR	K. Fukui
Development of high-resolution, transient and far-infrared absorption spectroscopy in slow-time region	Y. Kondo
Spatial resolution and its wavelength dependence of the infrared microspectroscopy of BL43IR	Y. Kondo

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Direct Observation of Corralled Brownian Motions Within A Single Protein Molecule Y. Sasaki

Dynamical X-ray Imaging of Single DNA molecules Y. Sasaki

## BL45XU

An X-ray Diffraction Study on Rat Right Ventricular Papillary Muscles H. Suga

Time-resolved X-ray diffraction recording of the structural changes of exogenous myosin subfragment-1 chemically cross-linked to actin filament in skeletal muscle fiber H. Iwamoto

Diffraction recordings from micrometer-sized biological specimens with X-ray microbeams H. Iwamoto

Time-resolved Low-angle X-ray Scattering Studies of Fish Muscle J. J. Harford

Investigation of Re-orientation for Nylon on Iodine-doping A. Kawaguchi

X-ray diffraction study on skinned fibers from which some constituent proteins were extracted S. Takemori

Sizing of the human dihydrolipoyl acetyltransferase and its complexes T. E. Roche

An X-ray Diffraction Study on a Rat Right Ventricular Papillary Muscle during Isotonic Shortening H. Suga

X-ray diffraction studies on the structural changes of smooth muscle myosin subfragment-1 diffused into single skeletal muscle fibers H. Iwamoto

Equatorial X-ray diffraction pattern of muscle recorded by using pinhole-generated microbeams H. Iwamoto

Structural changes induced by calcium ions on the stretched skinned fibers at rigor condition S. Takemori

Molecular Dynamics and Self-Organization of Organogelators K. Sakurai

Characterization of the Early Folding Intermediates of Cytochrome *c* and Ribonuclease A Using Small Angle X-ray Scattering and Fast Solution Mixer S. Takahashi

The application of microstrip gas chamber on muscle research H. Toyokawa

Investigation of Re-orientation for Nylon on Iodine-doping. II. A. Kawaguchi

### **BL46XU**

Study on Ultra-thin-insulator Structure by X-ray Scattering	H. Satake
Au L x-ray anisotropy in photoionization	H. Yamaoka
Measurements for ultra rapid X-ray crystal structure analysis using MSGC	A. Ochi

### **BL47XU**

Development of apparatus for X-ray fluorescence holography at SPring-8	K. Hayashi
Reproducibility of X-Ray Fluorescence Holography	J. Kawai
Performance Test of X-ray Imaging Microscope with Multilayer Zone Plate	Y. Suzuki
Feasibility experiments on measuring the cross sections for inner-shell double photoionization by single photon using wavelength dispersive fluorescence spectrometer	M. Oura
Development of a method to measure high energy monochromatic X-ray diffracted from micro-area limited by pinholes	K. Hagiya
Development of high spatial resolution X-ray CT system for rocks and minerals	A. Tsuchiyama
Study of photo-luminescent porous silicon using a coherent and incoherent X-ray scattering	H. Shin
Development of a Grazing Incidence Optics for X-Ray microbeam System	A. Takeuchi
Development of a Three-Beam Case X-Ray Interferometer	A. Yoneyama
Performance Test of X-ray Scanning Microscopy with Sputtered-sliced Zone Plate	Y. Suzuki
Fabrication and Characterization of the high resolution Sputtered-sliced Fresnel zone plate	N. Kamiyo
Electron correlation effects on L X-rays following photoionization	Y. Zou
Energy dependence of the K-shell double photoionization processes	M. Oura
X-Ray Holography with a Point Source Produced by Glass Rod Reflectors	N. Watanabe
Development of X-ray CT system with high spatial resolution detector	K. Uesugi



**Contract Beamline  
BL16XU**

X-ray Focusing to Submicron Size and Its Application to Fluorescence Imaging of Human Hair	Y. Hirai
Fluorescence X-ray Imaging with an X-ray Microbeam	M. Hasegawa
Degradation of PZT measured by XANES micrograph	K. Ogata
In-Plane X-ray Diffraction of Co-based Magnetic Thin-Film Media	T. Hirose
Crystallographic analysis of micro crystal Si films	A. Mikami
X-ray diffraction studies of $\text{LiNiO}_2$ and $\text{Nd}_2\text{Fe}_{14}\text{B}$	Y. Seno
X-ray diffraction analysis for thin film interfaces of Cu/TaN	Y. Hirai
Micro-analysis of Water-Tree in Cross-linked Polyethylene Using X-ray Diffractometer	T. Yamazaki
X-ray diffraction measurements for thin films of $\text{Pb}(\text{ZrTi})\text{O}_3$ and other materials	S. Kimura
Structural analysis of SiN thin using X-ray diffraction measurements	K. Yamaguchi
Grazing Incidence X-ray Fluorescence of $\text{Ta}_2\text{O}_5/\text{TiN}$ Gate Structure	N. Awaji
Chemical State Analysis of $\text{SiO}_2/\text{Si}$ by Angle Resolved XRF	S. Ozaki
Total Reflection X-ray Fluorescence Analysis of Cu thin films	J. Nishino
Elemental analysis of GaO thin film surface	H. Okano
Total reflection x-ray fluorescence study of magnetite thin film	K. Kobayashi
Trace analysis of Pb and Pt on silicon wafer surface by total reflection X-ray fluorescence	M. Takemura
Characterization of LIGA-based Microstructures Using an X-ray Microprobe	K. Haga
XRF Imaging by Scanning X-ray Microbeam	K. Liu
Characterization of Ferrite and Cementite in Steel Wires	K. Yamaguchi
Study on Ultra-thin $\text{SiO}_2$ Structure by X-ray Scattering	H. Satake
Crystallographic characterization of Si-Ge and poly-Si films	J. Nishino
Crystallographic characterization of Ti Salicide films	J. Nishino

Powder X-ray Diffraction Study of $\text{LiNi}_{0.8}\text{Co}_{0.2}\text{O}_2$	K. Yamaura
XD Analysis of PZT thin Films	S. Ozaki
In-situ X-ray diffraction study of crystallization process of $\text{Ge}_2\text{Sb}_2\text{Te}_5$ thin films during heat treatment	N. Kato
Crystallographic Observation of Grains of Sub-micron Metal Line with an X-ray Microbeam	M. Hasegawa
X-ray Imaging of Human Hair using Fluorescence Scanning X-ray Microscopy	M. Hasegawa
Micro-analysis of Water-Tree in Cross-linked Polyethylene	M. Hasegawa
Fluorescence of Magnetoresistive Multilayer Films using Focused X-rays	M. Hasegawa
X-ray Diffraction of $\text{TiN}/\text{Ta}_2\text{O}_5/\text{Si}$ Gate Structure	N. Awaji
Crystallographic characterization of Ti Silicide films	J. Nishino
X-ray diffraction of $\text{Pb}(\text{ZrTi})\text{O}_3$ thin films	S. Kimura
Total Reflection X-ray Fluorescence Analysis of Cu thin films	J. Nishino
X-ray Fluorescence Spectra of Hard-Disk Carbon Overcoats	R. Tanuma
Total reflection X-ray fluorescence analysis of heavy metals on silicon wafer	M. Takemura
The Structure Analysis of SBT Thin Films on Pt Layer by Wavelength-Dispersive X-Ray Fluorescence XAFS	S. Ozaki
Structural Study of Indium-Tin Oxide Thin Films	Y. Uehara
Study on the detection limit of halogen in the resin by means of X-ray fluorescence spectroscopy	K. Miyatake
In-situ XRD Study on $\text{LiNiO}_2$ Secondary Battery	Y. Seno
XRD Study of Fine Precipitates in a Cast Iron	Y. Seno
Interface Structure Analysis of Cu Interconnection Thin Films by Grazing-incidence X-ray Diffraction Method	T. Onishi
X-Ray Diffraction of Co-based Magnetic Thin Film	T. Hirose
Depth Profiling of Residual Stress in Steel	K. Yamaguchi

## BL16B2

XAFS Analysis for Some Industrial Material by Fluorescence X-ray Yield method	T. Okamoto
Study of the local structures of electrode materials for chemical batteries (2)	J. Hirose
Total reflection XAFS study in magnetite thin film	K. Kobayashi
XAFS study of Barium Strontium Titanate Thin Films	Y. Uehara
Absolute Measurement of the Energy of X-ray Absorption Edge for Copper	T. Watanabe
Structural Analysis of GaInN using X-ray Absorption Fine Structure	T. Miyajima
XAFS measurement of tantalum oxide films	S. Takeishi
Local Atomic Environment of Vanadium Ions in Acid Aqueous Electrolytes	K. Haga
An <i>in situ</i> XAFS Study on Lithium-ion Batteries using LiNiO <sub>2</sub> Cathode: Thermal Stability	T. Okamoto
Local Structure Analysis of Perovskite and Fluorite Solid State Electrolytes	H. Yoshida
XAFS study on Li <sub>x</sub> NiO <sub>2</sub> treated under high temperature	K. Yamaura
XAFS Study on Local Structure of Ce and Zr in Industrial Catalysts -2-	Y. Nagai
Local Structure Analysis of the Sputtered Copper films by XAFS	T. Watanabe
XANES Study of Pt-Co Alloy Catalysts	N. Okuda
Structural Study of Ni Alloy by XAFS Method	H. Ohzono
Local structure analysis of Ni and Co system electrode materials	A. Mikami
XAFS Study on LaMnO <sub>3</sub> -related Materials for Solid Oxide Fuel Cell	T. Yamamoto
X-ray Reflectivity of Amorphous Carbon Thin Films grown on Magnetic Recording Media	N. Okuda
Structure Analyses of Spin Valve Multi-Layer Thin Films by X-Ray Reflectivity Measurements	H. Ohmori
X-ray reflectivity study of Silicon Oxide and Nitride thin films	Y. Uehara
Structure Analyses of Amorphous SiN <sub>x</sub> Films on GaAs Substrates by X-ray Reflectometry	K. Haga
XAFS Studies on Ni added LiMn <sub>2</sub> O <sub>4</sub>	G. Nakajima

XAFS Study on Local Structure around Heme of Peroxidase	T. Okamoto
Ta L-shell XAFS measurements of tantalum oxide films	M. Takemura
X-ray computed tomography by using high-energy SR x-ray	K. Kobayashi
Local and Electronic Structure Analysis of Co doped ZnO	N. Okuda
Analysis of Microstructure of Iron Rust by SR-XAFS	T. Nakayama
XAFS Analysis for Some Industrial Material using Conversion Helium ion Yield method	T. Okamoto
The Structure Analysis of SBT Thin Films on Pt Layer by Grazing Incidence Conversion Electron Yield XAFS	S. Ozaki
Total reflection XAFS study in magnetite thin film (II)	K. Kobayashi
Structural Analysis of GaInN using X-ray Absorption Fine Structure	T. Miyajima
XAFS Studies of Electrochemically Prepared $\lambda$ -MnO <sub>2</sub>	G. Li
Analysis of Microstructure of Artificially Synthesized $\beta$ -type Ferric Oxyhydroxide Iron Rust by SR-XAFS	T. Nakayama
Chemical Analysis for Fe in LiCoO <sub>2</sub> by using XAFS	H. Ohzono
Local Atomic Environment of Vanadium Ions in Acid Aqueous Electrolytes II	K. Haga
XAFS study of Platinum related catalysts	Y. Uehara
Local Structure Analysis of SiGe Thin Films	A. Mikami
Local Structure Analysis of NH <sub>3</sub> -SCR Catalyst	H. Deguchi
XAFS measurement of Pb(Zr, Ti)O <sub>3</sub> thin films	K. Nomura
Local Structure Analysis of Ruthenium Catalyst by XAFS	T. Watanabe
High-temperature XAFS Study on LaMnO <sub>3</sub> -related Materials for Solid Oxide Fuel Cell	T. Yamamoto
Fluorescence XAFS Study of Co-based Alloy Magnetic Thin Films	N. Okuda
An <i>in situ</i> XAFS Study on Lithium-ion Batteries -3-	T. Nonaka
Local Structure Analysis of Titanium Oxide films by XAFS	M. Takahashi
Ta L-shell XAFS measurements of tantalum oxide films	M. Takemura

XAFS Analysis of (Pb,La)(Zr,Ti)O <sub>3</sub> Thin Films	K. Suenaga
Structure Analyses of Spin Valve Multi-Layer Thin Films by X-Ray Reflectivity Measurements	H. Ohmori
X-ray refractive study of Silicon oxide thin films	Y. Uehara
Analysis of surface damaged layer of Permalloy films by using x-ray reflectivity method	K. Ogata
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X-ray Crystallographic Study of <i>Klebsiella pneumoniae</i> Pullulanase	Y. Katsuya
X-ray Diffraction from Single Fibers of poly( <i>p</i> -phenylene benzobisoxazole)	Y. Katsuya
Unique sodium-caged structure of a potent endothelin-1 inhibitor: Crystal structure of BQ123 sodium salt, <i>cyclo</i> (-D-Trp-D-Asp-Pro-D-Val-Leu-)•Na <sup>+</sup>	M. Doi
X-Ray structure analysis of human initiation factor 4E	K. Tomoo
Crystallographic study of molecular mechanism of archaeobacterial DNA binding protein	H. Koike
Crystallographic analysis of proteins related to drug-design I	S. Misaki
Crystallographic analysis of functional organic micro crystals	K. Yanagi
Crystallographic analysis of complex crystal of serine protease inhibitor	M. Koizumi
Structural Studies of Proteins of Pharmaceutical Interest	A. Paehler
Crystallographic study of <i>Pyrococcus furiosus</i> clamp loader small subunit	T. Oyama
Protein structure determination for medical development	H. Ago
Small Crystal Structure Determination	E. Inagaki
Crystallographic analysis of muscarinic acetylcholine receptor antagonist	M. Kamimura
Local structural analysis of TiAlN films	T. Kaneyoshi
(2×1) InP(001) Surface in Atmospheric Hydrogen Environment Revealed by Grazing Incidence X-ray Diffraction	T. Kawamura
In-situ measurement of Fe <sub>2</sub> O <sub>3</sub> and Fe <sub>3</sub> O <sub>4</sub> growing on iron surface during heat treatment	K. Nishio

Measurement of Residual Stress in Thermal Barrier Coating with Different Coating Thickness	K. Nishio
Some Observations on the Surface Structure of Ion Implanted Molds for Rubber	K. Nishio
Study of Local Strain Distribution in Semiconductor Devices Using High-Resolution X-Ray Microbeam Diffractometry	K. Yokoyama
Formation of X-Ray Microbeam Using Ta Phase Zone Plate and Its Application to Scanning X-Ray Microscope - III	Y. Kagoshima
X-ray characteristics of multilayer supermirrors	K. Tamura
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