

CONTENTS

PREFACE

CONTENTS

ORGANIZATION

CURRENT STATUS OF NewSUBARU

*NewSUBARU Storage Ring
Beamlines*

RESEARCH ACTIVITIES

*Observation of Smith-Purcell radiation in Terahertz regime at electron linear accelerator LEENA
Energy calibration of electron beams by laser Compton-scattering γ -rays at BL01
NEXAFS Study on Hyperthermal Atomic Oxygen Beam Irradiation Effect on the Ti-containing DLC Film
Soft X-ray Irradiation Effect on Highly Hydrogenated Diamond-like Carbon Films
Low-Temperature Activation of Boron in Si wafer by Soft X-ray Irradiation
Surface Modifications in Silica-Based Films by Undulator Radiation
Characterization BN Thin Film Deposited on Cemented Carbide using Soft X-ray Absorption Spectroscopy
Spectral Recovery of Etching Damage by Soft X-ray Irradiation Observed in XAS spectra of TiO₂ Thin Film
Modification of Electronic States of Multi-layer Graphenes by Ion Irradiation
Fabrication of amino acid analysis chip using SR direct dry etching of PTFE
Powder Transport Direction Control Method by Using Drive Frequency of Surface Acoustic Wave
Fabrication of SERS Active Three-dimensional Silver Nanostructure
Blood separation chip for automated biological analysis
Optimization of Surface Enhanced Raman Scattering Active Three-Dimensional Gold Nanostructure
Fabrication and characterization of three-dimensional type micro magneto-impedance sensor
Micro-Mirror Array Device for floating image manufactured by Synchrotron radiation
Broadband noise spectroscopy of a magnetic wire
Defect Characterization of an EUV Mask using a Coherent EUV Scatterometry Microscope
Chemical Reaction Analysis of EUV CA Resist using SR Absorption Spectroscopy
Plasma-Debris Sputter Resistant X-ray Mirror
Electronic Structure of the Fluorinated Self-Assemble Monolayer by Photoemission and Absorption Spectroscopy
Orientation evaluation of 3D-photoreactive liquid crystalline polymer structure fabricated by thermal nanoimprinting*

LIST OF PUBLICATIONS

*Papers
International Meetings*

ACADEMIC DEGREES

COVER PHOTOGRAPHS

EDITORIAL BOARD