

3. Theses

Theses written based on the PF experiments.

Doctor of Science

LIU, Fudong (Graduate Univ. Chinese Academy of Science)

“Novel Iron Titanate Catalyst for the Selective Catalytic Reduction of NO with NH₃”

The main part of this work was carried out at BL-7C, 9A and 12C.

Doctor of Science

HIGASHIURA, Akifumi (Osaka Univ.)

“High-Resolution X-Ray Crystal Structure Analysis of Bovine H-Protein and the Treatment of Diffraction Data”

The main part of this work was carried out at BL-5A and NW12A.

Doctor of Engineering

MUHAMAD, Sahlan (Tokyo Univ. of Agr. and Tech.)

“Study of Interaction between Prefoldin and Group II Chaperonin”

The main part of this work was carried out at BL-17A and NW12A.

Doctor of Pharmacy

NAKAMURA, Teruya (Kumamoto Univ.)

“Structural Studies of Oxidized Nucleotide Hydrolases E.coli MutT and Human MTH1”

The main part of this work was carried out at BL-6A, 6B, 17A and NW12A.

Doctor of Science

FUKUMITSU, Hiroshi (Hokkaido Univ.)

“Structure and Functions of Pt Nanoclusters Incorporated to Organic Molecular Layers”

The main part of this work was carried out at BL-12C.

Doctor of Engineering

SUNAGUCHI, Naoki (Yamagata Univ.)

“Development of Tomographic Imaging System of the Generation ”

The main part of this work was carried out at BL-14C.

Doctor of Science

Md. MANNAN, Abdul (Saga Univ.)

“Synthesis and Structural Analysis of B-C-N Hybrid Films and Related Low-Dimensional Materials”

The main part of this work was carried out at BL-11A and 27A.

Doctor of Engineering

TSUBOUCHI, Kenta (The Univ. of Tokyo)

“Study on Resistance Change Non-Volatile Memory using Perovskite Oxides ”

The main part of this work was carried out at BL-2C.

Doctor of Science

TANAKA, Hiroki (Osaka Univ.)

“Structural Basis for the Trans-Synaptic Cell Adhesion Mediated by Neurexin and Neuroligin”

The main part of this work was carried out at BL-5A, 17A and NW12A.

Doctor of Engineering

TAKAGI, Hideaki (Nagoya Inst. of Tech.)

“Study on Phase Behavior of Block Copolymers and Multi-component Polymer Blend System ”

The main part of this work was carried out at BL-9C and 15A.

Doctor of Medicine

MATSUMOTO, Koji (Nippon Medical School)

“FYX-051: A Novel and Potent Hybrid-Type Inhibitor of Xanthine Oxidoreductase”

The main part of this work was carried out at NW12A.

Doctor of Science

NAKATA, Zenzaburo (Osaka Univ.)

“Structural Basis for Recognition of Peptide Ligands by LR11 Vps10p Domain”

The main part of this work was carried out at BL-5A, 17A and NW12A.

Doctor of Philosophy in Engineering

RAHAMAN Siti Sarah Binti Abdul (Univ. of Nagoya)

“Phase Structure Control of Multi-Component Polymer Systems by Tuning the Interaction Strength via Molecular Design”

The main part of this work was carried out at BL-15A.

Doctor of Engineering

MATSUMORI, Hiroshi (Kyushu Univ.)

“Improvement of Durability of Carbon-Supported Pt Cathode Catalysts for Polymer Electrolyte Fuel Cells by Coverage with Silica ”

The main part of this work was carried out at BL-9C and NW10A.

Doctor of Philosophy

MATOBA, Kazuaki (Kyoto Inst. of Tech.)

“Structural Studies of Targeted Proteins for Rational Design of Anti-parasitic Drugs”

The main part of this work was carried out at BL-1A, 5A, 17A, NE3A and NW12A .

Doctor of Engineering

FUKUSHIMA, Tadahiro (Osaka Pref. Univ.)

“Electrical Property of Controlled-Polarization Type Ferroelectric-Gate Thin Film Transistors”

The main part of this work was carried out at BL-27A.

Doctor of Engineering

YOGI, Chihiro (Ritsumeikan Univ.)

“Preparation of Au-TiO₂ Photocatalytic Nanocomposite Film by Sol-Gel Method”

The main part of this work was carried out at BL-12C.

Doctor of Philosophy

SHOZUGAWA, Katsumi (The Univ. of Tokyo)

“Reconstruction of Paleo-Environment Based on Chemical Compositions of Pelagic and Coastal Sediments”

The main part of this work was carried out at BL-9A, 9C and 12C.

Doctor of Engineering

ARIKE, Takafumi (Kyushu Univ.)

“Functionalization of Carbon Nanotube Covered with Metal Oxides”

The main part of this work was carried out at BL-9C and 10A.

Doctor of Engineering

HORIUCHI, Yu (Osaka Univ.)

“Design and Application of Single-Site Photocatalyst Thin Films”

The main part of this work was carried out at BL-7C and 9A.

Doctor of Science

KASHIWABARA, Teruhiko (Hiroshima Univ.)

“Geochemistry of Molybdenum and Tungsten at Solid/Water”

The main part of this work was carried out at 4A, 9A and 12C.

Doctor of Engineering

HARADA Takayuki (The Univ. of Tokyo)

“Generation of Spin-Polarized Current using Ferromagnetic Tunnel Barriers”

The main part of this work was carried out at BL-2C.

Doctor of Engineering

YASUHARA, Ryutaro (The Univ. of Tokyo)

“Synchrotron Radiation Photoemission Studies of Resistance Random Access Memories”

The main part of this work was carried out at BL-2C.

Doctor of Engineering

SHIMURA, Katsuya (Nagoya Univ.)

“Catalyst Design for Photocatalytic Steam Reforming of Methane around Room Temperature”

The main part of this work was carried out at NW10A.

Doctor of Pharmacy

SUZUKI, Hironori (The Univ. of Tokyo)

“Structural Study of Co-chaperone Mechanism of Human Heat Shock Protein Hdj1”

The main part of this work was carried out at BL-5A, 6A, 17A and NE3A.

Doctor of Engineering

SAKAKURA, Terutoshi (Nagoya Inst. of Tech.)

“Precise Single-Crystal X-Ray Analysis Using Synchrotron and Laboratory X-Rays”

The main part of this work was carried out at BL-14A.

Doctor of Engineering

KOMORI, Takashi (Nagoya Inst. of Tech.)

“Crystallographic Study on Functionally-Important Complex Oxides Containing Lanthanides”

The main part of this work was carried out at BL-14A.

Doctor of Science

ARAKANE, Toshiyuki (Tohoku Univ.)

“Angle-Resolved Photoemission Study of Layered Cobalt Oxides”

The main part of this work was carried out at BL-28A.

Doctor of Engineering

SEKIZAWA, Oki (Tokyo Univ. of Science)

“The Study of Crystal and Electronic Structures and Battery Performance of $\text{LiNi}_{0.5}\text{Mn}_{0.5}\text{O}_2$ Oxide as a Cathode Active Material for Li Ion Battery”

The main part of this work was carried out at BL-9A.

Doctor of Science

UCHIKAWA, Emiko (Ochanomizu Univ.)

“A Structural Approach of RNA: Protein Recognition and Kinetics of Binding in Two Examples. tRNA Aminoacylation Mechanism of Arginyl-tRNA Synthetase and 7SK Stabilization by LaRP7”

The main part of this work was carried out at BL-5A and NE3A.

Doctor of Engineering

OHYAMA, Jyunya (Kyoto Univ.)

“Study of Synthesis and Formation Mechanism of Metal Nanoparticles”

The main part of this work was carried out at BL-7C and NW10A.

Doctor of Engineering

NUMAKURA, Masahiko (Tokyo Inst. of Tech.)

“Local Structure of Trivalent and Tetravalent Cations in Molten Alkali and Alkaline - Earth Fluorides”

The main part of this work was carried out at BL-7C and 27B.

Doctor of Pharmacy

WATANABE, Hiroshi (Hokkaido Univ.)

“Mechanism Study on Promoting Activity of Transdermal Absorption Enhancers using Novel Lipid Member Model Systems”

The main part of this work was carried out at BL-15A.

Doctor of Philosophy in Biomedical Chemistry

BALOGUN, Emmanuel Oluwadare (The University of Tokyo)

“X-Ray Crystal Structure Analysis of Glycerol Kinase from African Human Trypanosomes for Anti-Trypanosomal Drug Design”

The main part of this work was carried out at NW12A, BL-5A and 17A

Doctor of Science

TANABE, Takehiko (Kumamoto Univ.)

“Generation of an Entangled H(2p) Pair in Photodissociation of H₂ and Dynamics of Entangled Atoms”

The main part of this work was carried out at BL-20A and 28B.

Doctor of Science

MURAKAMI, Takuma (Nagoya Univ.)

“Environmental Variations in Asian Continental Interior on Time Scales Covering Centuries to Tens of Thousands Years Inferred by Sediment Cores from Lake Baikal in Russia and that from Lake Hovsgol in Mongolia.”

The main part of this work was carried out at BL-12C.

Doctor of Science

KUROKAWA, Manabu (Tokyo Inst. of Tech.)

“The Study of Ultra-Low Energy Electron Scattering from Rare Gas Atoms using the Threshold Photoelectron Source.”

The main part of this work was carried out at BL-20A.