

3. Theses

Lists of doctoral theses, which were written based on the PF experiments.

Doctor of Science

PORCEL, Erika (Universite Paris Sud 11)

“Use of Nanoparticles for Improvement of Hadron Therapy” (27A and 27B)

Doctor of Engineering

SUN, Qing-Fu (The Univ. of Tokyo)

“Virus Inspired Multi-Component Self-Assembly of Molecular Spheres” (17A, NW2A, NE3A and NW12A)

Doctor of Philosophy in Science

SINGH, Vijay Raj (The Univ. of Tokyo)

“X-Ray Magnetic Circular Dichroism Study of Oxide-Based Magnetic Materials and Half-Metallic Alloys” (16A)

Doctor of Science

WANG, Heng (Nagoya Univ.)

“Investigation into the Reaction Mechanism of Molecular Cluster Batteries by XAFS, NMR, and Magnetic Analysis” (12C and NW10A)

Doctor of Biomedical Sciences

KAWAKUBO, Atsushi (Nagasaki Univ.)

“Zinc as an Essential Trace Element in the Acceleration of Matrix Vesicles-Mediated Mineral Deposition” (4A)

Doctor of Science

NAKATO, Aiko (Tohoku Univ.)

“Thermal Evolution of Primitive Hydrous Asteroids Inferred from Mineralogy, Isotope and Chemical Compositions of Dehydrated Carbonaceous Chondrites ” (3A and 9C)

Doctor of Engineering

NII, Yoichi (Tohoku Univ.)

“Spin-Orbital-Lattice Coupling in Spinel-Type Oxide Compounds” (3A)

Doctor of Engineering

YOSHIMATSU, Kohei (The Univ. of Tokyo)

“Metallic Quantum Well States in Oxide Artificial Structure Studied by Photoemission Spectroscopy ” (28A)

Doctor of Science

NISHIDA, Keisukei (Tohoku Univ.)

“Density and Sound Velocity Measurements of Liquid Fe-S at High Pressure: Implications for the Earth’s and the Lunar Core” (14C2 and NE7A)

Doctor of Science

CHEN, Zhiwen (Osaka Univ.)

“Precursor-Dependent Local Structure of Rh/Al₂O₃ Catalysts Analyzed by Scanning Tunneling Microscopy and X-ray Absorption Fine Structure ” (NW10A)

Doctor of Science

KOJIMA, Tatsuhiko (Tokyo Inst. of Tech.)

“Effects of the Solvents on Hydrogen-Bond-Assisted Molecular Aggregations of Protonated Decavanadate Anions in Solution and Crystalline States” (NW2A)

Doctor of Engineering

OTANI, Junji (Kyoto Univ.)

“Structural Analysis of Epigenetic Mark Readers” (5A, 17A, NE3A and NW12A)

Doctor of Science
 NAKANO, Shogo (Hiroshima Univ.)
 “Structural and Functional Analysis of Assimilatory Nitrite Reductase ” (17A and NW12A)

Doctor of Engineering
 KASAI, Hidetaka (The Univ. of Tokyo)
 “Study of Self-Diffusion in Fe under High Hydrogen Pressure by Nuclear Resonant X-Ray Forward Scattering” (NE1A)

Doctor of Science
 OHTOMI, Eisuke (Kyushu Univ.)
 “Studies on Freezing Transitions of Wetting Films and Its Effect on Foam Film Stability” (7C)

Doctor of Science
 KAVEENGA, Rasika Koswattage (Kobe Univ.)
 “Selective Adsorption of Atomic Hydrogen on a h-BN Thin Film” (11A and 13C)

Doctor of Science
 TAKEICHI, Yasuo (The Univ. of Tokyo)
 “Structure, Electronic Properties and Magnetism of Ultrathin Fe Films on Pd(001)” (18A and 19A)

Doctor of Science
 SHINOZAKI, Ayako (Ehime Univ.)
 “Reaction of Forsterite and Hydrogen Molecules under High Pressure and Temperature.” (18C)

Doctor of Science
 NARITA, Ayumi (Ibaraki Univ.)
 “Study for Chemical-State of Interface between Organic Molecule and Oxide Surface using Core-Level Spectroscopy ” (27A)

Doctor of Engineering
 WADA, Takahiro (Hokkaido Univ.)
 “Reaction Mechanism Analysis of Ni Phosphide Hydrodesulfurization Catalyst by Operando Quick XAFS” (9A, 9C and NW10A)

Doctor of Engineering
 NAGAE, Takayuki (Nagoya Univ.)
 “Structural Study of Proteins using High-Pressure Protein Crystallography: Pressure Effects and Pressure Adaptation of Proteins from Deep-Sea Bacteria” (5A, NE3A and NW12A)

Doctor of Engineering
 FUJITA, Daishi (The Univ. of Tokyo)
 “Protein Encapsulation within Synthetic Molecular Hosts” (1A, 17A and NE3A)

Doctor of Engineering
 IWASA, Junji (The Univ. of Tokyo)
 “Synthesis and Functionalization of M24L48 Spherical Complexes” (1A, 17A and NE3A)

Doctor of Engineering
 UCHIDA, Masaki (Nagoya Inst. of Tech.)
 “Spectroscopic Study on Charge-Spin-Orbital Coupled Phenomena in Mott-Transition Oxides” (16A)

Doctor of Science
 KAWABE, Yoshiteru (Tokyo Univ. of Science)
 “Study on Na₂MnxFe_{1-x}PO₄F Cathode Materials for Rechargeable Na-ion Batteries” (12C)