

# THESES

- CHEN, Gong  
D Pharm Sc, Kyoto University  
“Studies on Chemo- and Site-Selective C-H Amination of Aniline and Phenol Derivatives with Dirhodium Catalysts and Catalytic Asymmetric Synthesis of Inherently Chiral Calixarenes”  
Supervisor: Prof KAWABATA, Takeo  
24 March 2021
- HAKARIYA, Hayase  
D Med Sc, Kyoto University  
“Non-Genetic Cell-Surface Modification with a Self-Assembling Molecular Glue”  
Supervisor: Prof UESUGI, Motonari  
23 March 2021
- HIRATA, Yuushou  
D Sc, Kyoto University  
“Compensation Temperature in GdFe Alloys and Magnetic Domain Wall Creep in Tb/CoFeB”  
Supervisor: Prof ONO, Teruo  
19 January 2021
- ISHIBASHI, Mio  
D Sc, Kyoto University  
“Spin Waves in Synthetic Antiferromagnets”  
Supervisor: Prof ONO, Teruo  
19 January 2021
- IWAI, Kento  
D Sc, Kyoto University  
“Synthesis and Properties of Zwitterionic Compounds Utilizing an Introducing Unit of a Boranuidyl Group”  
Supervisor: Prof TOKITOH, Norihiro  
23 March 2021
- JIN, Masayoshi  
D Eng, Kyoto University  
“Development of Iron-Catalyzed Enantioselective Carbon-Carbon Bond Forming Reactions for Efficient Access to Bioactive Compounds and Their Derivatives”  
Supervisor: Prof NAKAMURA, Masaharu  
24 November 2021
- KINOSE, Yuji  
D Eng, Kyoto University  
“Fundamental and Applied Studies on Molecular Bottlebrushes with Particular Reference to Side-Chain Conformation and Dynamics”  
Supervisor: Prof TSUJII, Yoshinobu  
23 March 2021
- KOEDTRUAD, Anucha  
D Sc, Kyoto University  
“Synthesis of Novel Metal Halides and Their Structure-Property Relations”  
Supervisor: Prof SHIMAKAWA, Yuichi  
24 March 2021
- KURODA, Ryo  
D Sc, Kyoto University  
“Functions of the *Arabidopsis thaliana* PIP5K Genes, *PIP5K7*, *PIP5K8*, and *PIP5K9*”  
Supervisor: Prof AOYAMA, Takashi  
24 May 2021
- LAI, Ming-Wei  
D Sc, Kyoto University  
“Investigation of Ordered Structures in Oxidation-Synthesized  $\alpha$ -Fe<sub>2</sub>O<sub>3</sub> Nanowhiskers with Cs-Corrected HR-TEM and Monochromated Core-Loss EELS”  
Supervisor: Prof KURATA, Hiroki  
24 September 2021
- LI, Tien  
D Sc, Kyoto University  
“Spin Wave Propagation in Ferromagnetic Nano-Structures”  
Supervisor: Prof ONO, Teruo  
19 January 2021
- LI, Xiaopei  
D Eng, Kyoto University  
“Elucidation of the Termination Reaction Mechanism of Radical Polymerization”  
Supervisor: Prof YAMAGO, Shigeru  
23 March 2021
- LI, Zhanzhao  
D Sc, Kyoto University  
“Transformative Inorganic Nanocrystals during Cation Exchange Reaction”  
Supervisor: Prof TERANISHI, Toshiharu  
12 November 2021
- LIU, Pengyu  
D Inf, Kyoto University  
“Extracting Rules from Trained Machine Learning Models with Applications in Bioinformatics”  
Supervisor: Prof AKUSTU, Tastuya  
24 May 2021
- MARUOKA, Naruyuki  
D Agr, Kyoto University  
“Studies on a Bioactive Substance for Epidermal Barrier Improvement Derived from Fermented Barley Extract”  
Supervisor: Prof KURIHARA, Tatsuo  
24 November 2021
- NINOMIYA, Ryo  
D Pharm Sc, Kyoto University  
“Development of Synthetic Method for  $\alpha$ -Chiral Amines Based on C-H Functionalization”  
Supervisor: Prof KAWABATA, Takeo  
24 March 2021
- NISHIYAMA, Hiroki  
D Pharm Sc, Kyoto University  
“Characterization of Features of Gut Microbiota Related to Gut Homeostasis and Disease Progression”  
Supervisor: Prof OGATA, Hiroyuki  
23 March 2021

OMATSU, Yamato  
D Sc, Kyoto University  
“Synthetic Study on Functionalized Oligosilanes toward Aromatic Silicon Clusters”  
Supervisor: Prof TOKITOH, Norihiro  
23 March 2021

SAKAMOTO, Kentarou  
D Pharm Sc, Kyoto University  
“Cytosolic Delivery of Macromolecules by Peptides and Peptide Nanocarrier”  
Supervisor: Prof FUTAKI, Shiroh  
23 March 2021

SANARI, Yasuyuki  
D Sc, Kyoto University  
“High-Order Harmonic Generation and Nonlinear Current Dynamics in Solids”  
Supervisor: Assoc Prof HIRORI, Hideki  
23 March 2021

TAN, Zhenhong  
D Sc, Kyoto University  
“High-Pressure Synthesis and Properties of Novel Hexagonal Perovskites Containing Unusual High-Valence Fe Ions”  
Supervisor: Prof SHIMAKAWA, Yuichi  
24 March 2021

XING, Yongning  
D Pharm Sc, Kyoto University  
“Synthetic Studies of Amide-Functionalized Helicene-Like Molecules”  
Supervisor: Prof KAWABATA, Takeo  
24 May 2021