



**P**UBLICATIONS

**I**NTERNATIONAL  
RESEARCH  
COLLABORATIONS

**T**HESES



# PUBLICATIONS

## DIVISION OF SYNTHETIC CHEMISTRY

### — Organoelement Chemistry —

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Department of Physical Chemistry, University of Science & Technology of China

Institute of Process Engineering, Chinese Academy of Sciences

Jilin Institute of Plastics Industry

State Key Laboratory of Applied Organic Chemistry, Lanzhou University

State Key Laboratory of Inorganic Synthesis and Preparative Chemistry, Jilin University

## **[Estonia]**

Institute of Chemical Physics and Biophysics

## **[France]**

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Istituto per i Materiali Compositi e Biomedici – CNR

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Laboratory of Toxicology and Risk Assessment, Institute of Coal Chemistry, Polish Academy of Sciences

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Department of Chemistry, Moscow State University

Joint Institute for Nuclear Research (JINR), Dubna

Nesmeyanov Institute of Organoelement Compounds, Russian Academy of Sciences

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European Organization for Nuclear Research (CERN)

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School of Chemistry, University of Southampton

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Department of Molecular and Cell Biology, University of California Berkeley

Department of Neurosciences, School of Medicine, University of California San Diego

Department of Physics, University of California

Environmental Energies and Technologies Division, Lawrence Berkeley National Laboratory

Infection Control Department, Florida Hospital

Laboratory of Atomic and Solid State Physics, Department of Physics, Cornell University

Material Sciences Division, Lawrence Berkeley National Laboratory

Polymers Division, National Institute of Standards and Technology

Stanford Linear Accelerator Center



# THESES

ENKHTUVSHIN, Dorjpalam

D Eng, Kyoto University

“Photoelectrochemical Properties of TiO<sub>2</sub>-Based Thin Film Electrodes Chemically Modified by Homogeneous- and Sectional-Doping Processes”

Supervisor: Prof YOKO, Toshinobu

23 March 2004

HATTORI, Masahiro

D Sc, Kyoto University

“Development of a Similarity Measure for Chemical Compound Structures and Analyses of Metabolic Pathways”

Supervisor: Prof KANEHISA, Minoru

23 March 2004

HAYASHIDA, Minoru

D Sc, Kyoto University

“Structural and Biological Studies on Lectins from the Roots of Pokeweed (*Phytolacca americana*)”

Supervisor: Prof OKA, Atsuhiko and Prof HATA, Yasuo

23 March 2004

HORI, Yuichiro

D Pharm Sc, Kyoto University

“Design of Artificial Proteins Induced Structural Change by Zinc Ion”

Supervisor: Prof SUGIURA, Yukio

23 March 2004

IKEUCHI, Yoshihiro

D Pharm Sc, Kyoto University

“Synthesis, Antitumor Activity and DNA Interaction of Nitro-5-deazaflavin Derivatives as New Bioreductive Drug”

Supervisor: Prof SUGIURA, Yukio

23 March 2004

KITANO, Tsuyoshi

D Sc, Kyoto University

“Selective Separation of Transition Metal Ions with Tripodal Tridentate Poly(pyrazolyl)borates”

Supervisor: Prof SOHRIN, Yoshiki

23 March 2004

KOMINATO, Kentaro

D Sc, Kyoto University

“Multi-Level Avoided Crossings in High Rydberg States of <sup>85</sup>Rb”

Supervisor: Prof MATSUKI, Seishi

23 March 2004

MASUNO, Atsunobu

D Sc, Kyoto University

“Control of Physical Properties in Micro-fabricated Perovskite-type Manganite Thin Films”

Supervisor: Assoc Prof TERASHIMA, Takahito

24 November 2004

MIYAKE, Kousaku

D Sc, Kyoto University

“Magnetism and Magnetoresistance of Magnets with Nano-contacts Prepared by Nanofabrication Technique”

Supervisor: Prof MIBU, Ko

23 January 2004

MURAKAMI, Miwa

D Eng, Kyoto University

“Studies on the Structure Formation and Dynamics of Main-Chain Thermotropic Liquid Crystalline Polymers”

Supervisor: Prof HORII, Fumitaka

24 May 2004

SAGAWA, Takashi

D Eng, Osaka City University

“Mechanistic Studies on Catalytic Addition of Inter-element Linkages”

Supervisor: Prof OZAWA, Fumiyuki

25 March 2004

SHIBATA, Masahiro

D Sc, Kyoto University

“Microwave Single-Photon Detection with Rydberg Atoms at Low Temperature”

Supervisor: Prof MATSUKI, Seishi

23 March 2004

TAKAHASHI, Nobuaki

D Eng, Kyoto University

“Structure Formation and Microscopic Dynamics of Poly(vinyl alcohol) Gels”

Supervisor: Prof KANAYA, Toshiji

23 March 2004

TAKEBAYASHI, Yoshihiro

D Sc, Kyoto University

“Dipolar Hydration Structure from Ambient to Supercritical Conditions”

Supervisor: Prof NAKAHARA, Masaru

24 May 2004

TAKEHASHI, Masanori

D Med Sc, Kyoto University

“Physiological and Pathological Roles of Septin 3 in Human Barain”

Supervisor: Prof UEDA, Kunihiro

24 May 2004

TAN, Hendra

D Eng, Kyoto University

“Linear and Nonlinear Rheological Properties of Diblock and Triblock Copolymer Systems”

Supervisor: Prof WATANABE, Hiroshi

24 May 2004

TERASAKA, Tadatsugu

D Pharm Sc, Kyoto University

“Creation of New Non-Nucleotide Adenosine Deaminase Inhibitors by Structure-Based Drug Design”

Supervisor: Prof SUGIURA, Yukio

23 March 2004

WEI, Yun-Lin

D Agr, Kyoto University

“Studies of Enzymes from Cold-adapted Microorganisms and Construction of Their Overproduction Systems”

Supervisor: Prof ESAKI, Nobuyoshi

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D Sc, Kyoto University  
“Study on Phase Transformation Processes in Organic Crystals  
from Microscopic Observations of Their Surface Morphologies”  
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23 March 2004

YAMAGUCHI, Atsuko  
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“Algorithms for Graph Theoretic Optimization Problems in  
Bioinformatics”  
Supervisor: Prof AKUTSU, Tatsuya  
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ZHANG, Jian  
D Eng, Kyoto University  
“Studies on High Luminance Eu<sup>2+</sup>-doped Thiogallate Phosphors”  
Supervisor: Prof YOKO, Toshinobu  
24 November 2004