

Summer School 2018 Schedule

Aug 27 (Mon) Workshop

9:00-9:10	Opening Remarks
9:10-10:00	Keynote Lecture
10:00-10:30	Oral Sessions
10:30-10:40	Coffee Break
10:40-11:40	Oral Sessions
11:40-12:30	Lunch Break
12:30-13:20	Poster Session (Odd number)
13:20-14:10	Poster Session (Even number)
14:10-14:25	Coffee Break
14:25-15:10	Oral Sessions
15:10-15:20	Coffee Break
15:20-16:50	Oral Sessions
16:50-17:00	Coffee Break
17:00-17:30	Oral Sessions
17:30-18:20	Keynote Lecture
18:40-	Banquet

Aug 28 (Tue) Workshop

9:00-9:50	Keynote Lecture
9:50-10:00	Coffee Break
10:00-11:15	Oral Sessions
11:15-11:25	Coffee Break
11:25-12:10	Oral Sessions
12:10-13:00	Lunch Break
13:00-13:50	Keynote Lecture
13:50-14:00	Coffee Break
14:00-14:45	Oral Sessions
14:45-14:55	Coffee Break
14:55-16:10	Oral Sessions
16:10-16:20	Coffee Break
16:20-17:10	Keynote Lecture
17:10-17:25	Closing Remarks
19:30-	Farewell Party

August 27, 2018 (Monday)

Opening Remarks 9:00–9:10

9:00–9:05 Mr. Naoki Sannodo (The Chairperson of the Summer School)

9:05–9:10 Prof. Akihiro Morita (Advisor of 11th Summer School)

Chairperson (Keynote Lecture-1 – O-2): Shinya Gima (Terada Lab.)

Keynote Lecture-1 9:10–10:00

Selective Halogenation and the Study of Noncanonical Lipids

Noah Z. Burns

O-1 10:00–10:15

Development of AgNTf₂-Mediated Amination/Cyclization Cascade and Application to Total Synthesis of (+)-Pestalazine B

Hiroyuki Hakamata, Hirofumi Ueda and Hidetoshi Tokuyama

O-2 10:15–10:30

Asymmetric Michael reaction of α -CF₃ thioester and α,β -unsaturated aldehyde catalyzed by diphenylprolinol silyl ether

Tomoaki Yamada, Shoya Watanabe, Misaki Sato, Hiroaki Chiba, Shigenobu Umemiya and Yujiro Hayashi

10:30–10:40 Coffee Break

Chairperson (O-3 – O-5): Siti Masturah binti Fakhruddin (Matsue Lab.)

O-3 10:40–10:55

Electrochemical 3D hydrogel scaffold printing

Noriko Taira, Kosuke Ino, Yuji Nashimoto and Hitoshi Shiku

O-4 10:55–11:10

Development of a novel imaging system using a closed bipolar electrode array

Tomoki Iwama, Kumi Y. Inoue, Hiroya Abe and Tomokazu Matsue

O-5(Invited) 11:10–11:40

Single-molecule spectroscopy and microfluidic mixing reveal a helical intermediate of the pore-forming toxin ClyA

Fabian Dingfelder, Stephan Benke, Bengt Wunderlich, Daniel Nettels and Benjamin Schuler

11:40–12:30 Lunch Break

12:30–13:20 Poster Session (Odd Number)

13:20–14:10 Poster Session (Even Number)

14:10–14:25 Coffee Break

Chairperson (O-6—O-8): Wijak Yospanya (Wada Lab.)

O-6 (AMC) 14:25–14:40

Formation of bulk amorphous silicon from supercooled liquid using liquid quenching

Kihyeon Kwon, Junpei T. Okada and Satoshi Uda

O-7 (AMC) 14:40–14:55

Observation of the transition from polyproline type I helix to type II helix by single-molecule FRET spectroscopy

Yu Zhang, Hiroyuki Oikawa and Satoshi Takahashi

O-8 (AMC) 14:55–15:10

Development of Cancer-Cell-Specific Drug Delivery System with MMP-Activatable PEG-decorated Oligoarginine

-Effects of PEG structure upon Cellular Membrane Permeability -

Jiang Nan, Hiroka Sugai, Moeka Matsushima, Yasuyuki Arakkoi, Masaki Nishijima, Ikuhiko Nakase, Asako Yamayoshi, Satoru Ishibashi, Takanori Yokota and Takehiko Wada

15:10–15:20 Coffee Break

Chairperson (O-9 – O-12): Hiroya Abe (Matsue Lab.)

O-9 15:20–15:35

Characterization of a dysprosium(III) heteroleptic triple-decker complex and investigation of the relationship between the coordination geometry and the magnetic properties

Tetsu Sato, Katoh Keiichi and Masahiro Yamashita

O-10 (Invited) 15:35–16:05

Inorganic Metal Halide Perovskites for Optoelectronic applications

Parth Vashisht and Jonathan E. Halpert

O-11 16:05–16:20

Slow Magnetic Relaxation and Spin Quantum Bit Properties of a Vanadylporphyrin Metal Organic Framework

Tsutomu Yamabayashi and Masahiro Yamashita

O-12 (Invited) 16:20–16:50

Silica nanohelices decorated with electrically conductive nanoparticles for sensing application

A. Amestoy, E. Pouget, R. Oda and M.H. Delville

16:50–17:00 Coffee Break

Chairperson (O-13 – Keynote Lecture-2): Chiaki Noda (Yin Lab.)

O-13 17:00–17:15

New approach to high-quality SiC thin films: Quasi nano-liquid assisted vapor phase epitaxy

Naoki Sannodo, Asuka Osumi, Shingo Maruyama and Yuji Matsumoto

O-14 17:15–17:30

Strain control in rutile RuO₂ thin films by pulsed laser deposition technique

Zainab Fatima, Daichi Oka and Tomoteru Fukumura

Keynote Lecture-2 17:30–18:20

Design of novel functionalities in oxide nanostructures

Hiroshi Kumigashira

August 28, 2018 (Tuesday)

Chairperson (Keynote Lecture-3): Seitaro Koshino (Hayashi Lab.)

Keynote Lecture-3 9:00–9:50

Dearomative Functionalization Strategies and Synthesis of Anticancer Natural Products

David Sarlah

9:50–10:00 Coffee Break

Chairperson (O-15 – O-17): Takehiro Nishimura (Kikuchi Lab.)

O-15 (Invited) 10:00–10:30

Potential-sensitive nonlinear spectroscopy of charged aqueous interfaces

Paul E. Ohno, Hong-fei Wang and Franz M. Geiger

O-16 10:30–10:45

Reference electrode-integrated and liquid junction-free sensing system from application of closed bipolar electrode system

Siti Masturah binti Fakhruddin, Kumi Y. Inoue, Ryoto Tsuga, Miho Ikegawa and Tomokazu Matsue

O-17 (Invited) 10:45–11:15

Separating dipole and quadrupole contributions to single-photon double-ionization

Sven Grundmann, M. S. Schöffler and R. Dörner

11:15–11:25 Coffee Break

Chairperson (O-18 – O-20): Toshitaka Okamura (Iwabuchi Lab.)

O-18 11:25–11:40

Solid State Ferroelectricity of Bowl-Shaped Alkoxy-Substituted Trithiasumanenes

Jianyun Wu, Takashi Takeda, Norihisa Hoshino and Tomoyuki Akutagawa

O-19 11:40–11:55

Synthesis, Double-helix Formation, and Self-assembly Aggregation of Oxymethylenehelicene Oligomers at Liquid-Solid Interfaces

Tsukasa Sawato, Nozomi Saito and Masahiko Yamaguchi

O-20 11:55–12:10

Diverse Crystal Structures and Gas Sorption Properties of Bis-Urea Macrocycles

Guohao Yuan, Takashi Takeda, Norihisa Hoshino and Tomoyuki Akutagawa

12:10–13:00 Lunch Break

Chairperson (Keynote Lecture-4): Shuntaro Sato (Kuwahara Lab.)

Keynote Lecture-4 13:00–13:50

Natural Product Synthesis as a Driving Force to Address the Antibiotic Resistance Crisis

Xiaoguang Lei

13:50–14:00 Coffee Break

Chairperson (O-18 – O-20): Tomoki Iwama (Matsue Lab.)

O-21 14:00–14:15

Structural and Crystalline Phase Characterization of Poly(vinylidene fluoride) Nanoparticles Prepared by A Facile Solution Method

Chang Fu, Huie Zhu, Shunsuke Yamamoto and Masaya Mitsuishi

O-22 14:15–14:30

The Synthesis of Pseudo-polymer Particles: Fe₃O₄-PMMA Composite Nanoparticles Controlled in Size and Morphology

Chen Shen, Kiyoshi Kanie and Atsushi Muramatsu

O-23 14:30–14:45

Porous SiO₂ Nanofilm Formation from Organic-Inorganic Hybrid Polymer Nanosheets

Yuya Ishizaki, Shunsuke Yamamoto, Tokuji Miyashita and Masaya Mitsuishi

14:45–14:55 Coffee Break

Chairperson (O-24 - O-26): Touma Adachi (Tokuyama Lab.)

O-24 14:55–15:10

Control in Packing Structures and Electron Transport Properties of Ion-Pairing n-Type Semiconductor

Ayumi Kawasaki, Takashi Takeda, Norihisa Hoshino and Tomoyuki Akutagawa

O-25 (Invited) 15:10–15:40

Development of Ni- Catalyzed Asymmetric Allylic Alkylation of Lactones and Lactams with Unactivated Allylic Alcohols

Aurapat (Fa) Ngamnithiporn, Carina I. Jette, Shoshana Bachman, Scott C. Virgil and Brian M. Stoltz

O-26 (Invited) 15:40–16:10

Total Synthesis of (±) Aspergilline A

Mina C. Nakhla and John L. Wood

16:10–16:20 Coffee Break

Chairperson (Keynote Lecture-5): Mariko Okada (Nakabayashi Lab.)

Keynote Lecture-5 16:20–17:10

FLUOROCODE, a super-resolution optical map of DNA

Johan Hofkens

17:10–17:25 Closing Remarks

Program (Poster Sessions)

P-1

Focused stereochemical library of a plant hormone mimicking natural product, (+)-Coronatine

Sho Tozawa, Raku Watanabe, Kengo Hayashi, Keina Nagumo, Ika Azizah Nurul, Nobuki Kato, Yasuhiro Ishimaru, Yousuke Takaoka and Minoru Ueda

P-2

Development of *in vitro* assay system for ligand of jasmonate co-receptor formation based on fluorescence anisotropy

Keina Nagumo, Yousuke Takaoka, Mana Iwahashi, Ika Nurul Azizah, Nobuki Katou and Minoru Ueda

P-3

Synthesis of Polysubstituted Allenamides from Alkynylimines Utilizing Umpolung Strategy under Brønsted Base Catalysis

Ryosuke Ozawa, Azusa Kondoh and Masahiro Terada

P-4

Nucleophilic Substitution Reaction of *gem*-Difluoroalkenes with Ketene Silyl Acetals Catalyzed by Phosphazene Base

Kazumi Koda, Azusa Kondoh and Masahiro Terada

P-5

Gold-catalyzed Skeletal Rearrangement of *O*-Propargylic Oximes via N-O Bond Cleavage

Keigo Shiga, Itaru Nakamura and Masahiro Terada

P-6

Organocatalyst-mediated aldol reaction for the synthesis of natural products

Hiromu Arase, Genki Kawauchi and Yujiro Hayashi

P-7

Development of artificial nucleic acids to induce the base flipping out

Kei Ishida, Kazumitsu Onizuka and Fumi Nagatsugi

P-8

Synthesis of biotinylated nucleic acids binding molecules for the analysis of their binding RNA sequences

Kanna Ojima, Kazumitsu Onizuka, Kousuke Tanno and Fumi Nagatsugi

P-9

Synthesis of a new reactive base targeting for RNA binding proteins

Misaki Sato, Hirotaka Murase, Takuya Akisawa and Fumi Nagatsugi

P-10

Development of the acyclic linked 7-deaza-6-vinyl guanine derivatives and Evaluation of the crosslinking reactivity

Kiyono Fukuma, Hirotaka Murase, Yusuke Abe, Ken Yamada, Kazumitsu Onizuka and Fumi Nagatsugi

P-11

Development of fluorescence OFF/ON type pseudorotaxane-forming nucleic acids for noncovalent labeling of RNA

Jumpei Matsuyama, Kazumitsu Onizuka, Takuya Miyashita, Yuuya Kawasaki, Kazunobu Igawa, Katsuhiko Tomooka and Fumi Nagatsugi

P-12

Targeting RNA G-quadruplex and KRas protein-protein interaction using click chemistry

Toan Khanh Le, Junko Ohkanda and Fumi Nagatsugi

P-13

Facile Synthesis of Benzo[b]thiophene Having Several Halogen Atoms and Its Application

Shinichi Mikami and Kozo Toyota

P-14

Synthesis of a Proline base FLP

Kohei Yamaguchi, Kenji Omata and Kozo Toyota

P-15

Synthesis and redox properties of a disilene bearing triarylamine moieties

Takuro Karakida, Shigeru Sasaki and Takeaki Iwamoto

P-16

Synthesis and Functionalization of Novel Cyclic Disilenes

Kaho Tanaka, Naohiko Akasaka, Shintaro Ishida and Takeaki Iwamoto

P-17

Synthesis and Reactivity of a Tetrasilabicyclo[1.1.0]but-1(3)-ene

Takumi Nukazawa, Shintaro Ishida and Takeaki Iwamoto

P-18

Valence Isomerization of a Tetrasil-1,3-diene

Kentaro Fujieda, Naohiko Akasaka and Takeaki Iwamoto

P-19

New Silylated Fullerenes Derived from Cycloaddition of a Dialkylsilylene

Maiko Mori, Shintaro Ishida and Takeaki Iwamoto

P-20

Synthesis of chiral face-to-face pentacene dimer and elucidation of excited state properties using the time resolved spectroscopy

Yuta Miura, Yasuyuki Araki, Makoto Kuronuma, Masaki Nishijima and Takehiko Wada

P-21

Highly conductive properties for π -conjugated polymer thin films treated with surface-doping

Kai Futamata, Tsunenobu Onodera, Shunsuke Yamamoto, Masaya Mitsuishi and Hidetoshi Oikawa

P-22

Bioconversion of putative biosynthetic intermediates of amnesic shellfish toxin, domoic acid, in the diatom *Pseudo-nitzschia multiseri*

Yukari Maeno, Yuichi Kotaki, Yuko Cho, Keiichi Konoki and Mari Yotsu-Yamashita

P-23

Screening for bioactive compounds in marine organisms collected in the Solomon Islands

Masato Kasuga, Clyde Gorapava Puilingi, Atsuo Nakazaki, Shunsuke Tsunogae, Yuko Cho, Keiichi Konoki, Toshio Nishikawa and Mari Yotsu-Yamashita

P-24

Highly Stereocontrolled Total Synthesis of (–)-isocelorbicol

Tomoyo Mohri, Yusuke Takahashi, Shigefumi Kuwahara and Yusuke Ogura

P-25

Development of Ion Channel with Monensin Polymer

Yuko Bando, Shigefumi Kuwahara and Masaru Enomoto

P-26

Synthetic Study for The Elucidation of Geometric Structure of Ktedonobisether

Katsuya Saito, Shigefumi Kuwahara and Masaru Enomoto

P-27

Synthetic Studies on (–)-Sinensilactam A

Mari Oyake, Shuntaro Sato, Yusuke Ogura and Shigefumi Kuwahara

P-28

Synthetic Study of Tricinonoic acid

Yuta Takahashi, Tetsuro Murokawa, Shigefumi Kuwahara and Masaru Enomoto

P-29

Synthetic studies on Amorfrutin A, B and C

Tadafumi Fujita, Yusuke Ogura and Shigefumi Kuwahara

P-30

Synthetic Studies on Daphniyunnine D, an Antitumor *Daphniphyllum* Alkaloid

Junpei Koyama, Kaori Yoshikawa, Yusuke Sasano, Naoki Kanoh and Yoshiharu Iwabuchi

P-31

Development of mild 2-step propargylation methods for aromatic bioactive molecules

Shogo Fujiki, Toshitaka Okamura, Yoshiharu Iwabuchi and Naoki Kanoh

P-32

Total Synthesis of (±) –Dehydrobatzalladine C

Daichi Itagaki, Kazuya Marumo, Hirofumi Ueda and Hidetoshi Tokuyama

P-33

Development of Novel Construction of Spirocyclic Tetrahydroquinolines and Its Application

Yuko Wakahara, Takahiro Noro, Juri Sakata, Hirofumi Ueda and Hidetoshi Tokuyama

P-34

Synthesis and Biological Evaluation of Structure-Simplified Apratoxin A Mimetics

Takayuki Doi, Kazuki Fukushi and Masahito Yoshida

P-35

Synthetic study of haouamines based on β -elimination of optically active 5-alkoxy-2-cyclohexen-1-one

Hirokazu Tsukamoto, Akito Tomida and Takayuki Doi

P-36

Synthetic Study for Neothioviridamide

Masahito Yoshida, Yuta Osakabe, Keisuke Yamoto, Kazuo Shin-ya and Takayuki Doi

P-37

Synthesis of Antimalarial Cladosporin and Its Derivatives

Mizuki Sato, Sugawara Akihiro, Yoshiteru Oshima and Haruhisa Kikuchi

P-38

Development of Terpenoid Alkaloid-like Compound Library Bearing Medium-Sized Azaring Moieties Based on Humulene

Kosuke Shiga, Takehiro Nishimura, Akihiro Sugawara, Yoshiteru Oshima and Haruhisa Kikuchi

P-39

Development of Immune Checkpoint Inhibitors Based on Indole Alkaloid-Like Compounds Derived from Diversity-Enhanced Extracts

Yoshihide Suzuki, Keisuke Ichinohe, Shinya Murase, Shinya Kida, Osamu Yamada, Yoshiteru Oshima and Haruhisa Kikuchi

P-40

Development of Biaryl, Biarylamine-type Compound Library by Using Diversity-Enhanced Extracts

Shota Funayama, Yoshiteru Oshima and Haruhisa Kikuchi

P-41

Rhodium-catalyzed Insertion Reaction of PhP Group of Pentaphenylcyclopentaphosphine and Disulfides

Mieko Arisawa, Kyosuke Sawahata and Masahiko Yamaguchi

P-42

Pd-catalyzed borylative synthesis of multisubstituted benzooxaborinin-1-ols

Ryotaro Kume, Masanori Shigeno and Yoshinori Kondo

P-43

Copper-Catalyzed Oxidative C(sp³)–H Functionalization for the Synthesis of Phthalides under Molecular Oxygen

Satoshi Kurosu, Kanako Kumada and Yoshinori Kondo

P-44

Sodium Phenoxide Mediated Hydroxymethylation of Alkynylsilanes with *N*-[(Trimethylsiloxy)methyl]phthalimide

Keita Sasaki, Narumi Asano, Masanori Shigeno and Yoshinori Kondo

P-45

Phosphazene-base *t*-Bu-P4 catalyzed methoxy-substitution on (hetero)arenes

Kazutoshi Hayashi, Masanori Shigeno, Kanako Kumada and Yoshinori Kondo

P-46

Asymmetric Michael Reaction of Aldehydes and Cyano-alkenes Catalyzed by Diphenylprolinol Silyl Ether

Nektarios Kranidiotis-Hisatomi, Daisuke Sakamoto and Yujiro Hayashi

P-47

Asymmetric Construction of the C3–C8 Segment of Amphidinolide N via an Enantioselective Aldol Reaction catalyzed by Diarylprolinol

Odoh Amaechi, Shigenobu Umemiya and Yujiro Hayashi

P-48

Influence of coordinating substituents on Pauson-Khand Reaction

Shota Asano, Kaori Itto and Hirokazu Arimoto

P-49

Deletion of autophagy-related gene, *atg-5*, brings L1 arrest to *Caenorhabditis elegans*

Azusa Yamane, Nana Kondo, Yukihiro Kubota, Nami Haruta, Asako Sugimoto and Hirokazu Arimoto

P-50

Development of Photoactivatable protein labeling system

Keisuke Arai, Akimasa Yoshimura, Toshitaka Matsui, Kazuya Kikuchi and Shin Mizukami

P-51

Development of fluorescent probes for real-time and quantitative measurement of local pH changes in cell

Risa Ito, Toshiyuki Kowada and Shin Mizukami

P-52

Development of a fluorogenic protein for highly sensitive detection of novel heme catabolites

Toko Oikawa, Toshitaka Matsui and Shin Mizukami

P-53

Development of self-assembling peptide for controlling aggregation state by light

Yuri Hashimoto, Toshiyuki Kowada and Shin Mizukami

P-54

Development of fluorescent probe for visualizing intracellular Mg^{2+} dynamics

Keisuke Wakabayashi, Toshiyuki Kowada and Shin Mizukami

P-55

Development of fluorescent probes for visualization of zinc ion in intracellular organelles

Tomomi Watanabe, Toshiyuki Kowada, Toshitaka Matsui and Shin Mizukami

P-56

Detecting and distinguishing inside situation of HeLa cells by Raman microscopy

Qi Yang, Shin-ichi Morita and Takakazu Nakabayashi

P-57

Photo-switchable Dihydrofolate Reductase (DHFR) Inhibitor

Takato Mashita, Toshiyuki Kowada, Hiroto Takahashi, Toshitaka Matsui and Shin Mizukami

P-58

Identification of the zinc transporter involved in functional regulation of ERp44

Momo Yamada, Yuta Amagai, Satoshi Watanabe and Kenji Inaba

P-59

Different roles of KDEL receptor isoforms 1/2/3 in client transportation on the secretory pathway

Xue Han, Yuta Amagai and Kenji Inaba

P-60

Chimera protein design: how can the functional local structure graft to another protein?

Mio Akutsu, Hikaru Nakazawa, Teppei Niide and Mitsuo Umetsu

P-61

Chimeric Design for Molecular-Binding Protein: Generation of Growth Inhibitor Protein by Integrating Graft and Evolution Technologies.

Taiji Katsuki, Teppei Niide, Takashi Matsui, Hikaru Nakazawa, Yoshikazu Tanaka and Mitsuo Umetsu

P-62

Delivery siRNA to cancer tumor by using small antibody

Yu Ando, Shuhei Hattori, Hikaru Nakazawa, Teppei Niide and Mitsuo Umetsu

P-63

Challenging block integration library for affinity maturation of antibody

Takato Hagiwara, Aruto Sugiyama Teppei Niide, Hikaru Nakazawa and Mitsuo Umetsu

P-64

Creation of inorganic material-binding peptide by phage display method

Rintaro Sagara, Hikaru Nakazawa, Teppei Niide and Mitsuo Umetsu

P-65

Janus particle-based immunoassay for detection of primary aldosteronism

Kentaro Ito, Satsuki M. Sato, Siti Masturah, Yu Uchiumi, Kumi Y. Inoue, Hiroshi Yabu, Tomokazu Matsue and Hitoshi Shiku

P-66

Robust and Biodegradable Films Consisting of Gelatin and Polydopamine Formed at the Air/Water Interface

Hiroya Abe, Tomokazu Matsue and Hiroshi Yabu

P-67

Creation of multisubstituted cyclopentenone through catalyst-free hydrothermal reaction

Takaaki Kamishima, Toshiyuki Nonaka, Toshihiro Watanabe, Yoshitaka Koseki and Hitoshi Kasai

P-68

Synthesis of Fatty Acid-Modified SN-38 Isomers and Fabrication of Their Nano-Prodrugs

Keita Tanita, Yoshitaka Koseki and Hitoshi Kasai

P-69

Conversion of glucose-derivative into cyclopentenone

Toshihiro Watanabe, Yoshitaka Koseki and Hitoshi Kasai

P-70

Comparison in Ferroelectricity of Alkylamide- and Alkylester-substituted Helicene Derivatives

Hayato Anetai, Takashi Takeda, Norihisa Hoshino, Higashi Kobayashi, Nozomi Saito, Masanori Shigeno, Masahiko Yamaguchi and Tomoyuki Akutagawa

P-71

Selective adsorption of ethanol from $C_nH_{2n+1}OH$ using tetra[3,4]thienylenetetra-carboxylic acid

Masataka Ozawa, Takashi Takeda, Norihisa Hoshino and Tomoyuki Akutagawa

P-72

Fluorescent Chromism of 2-(2-Hydroxyphenyl) Benzothiazole Derivative bearing Acid Sensing Pyridyl Group

Keigo Takahashi, Yuta Nakane, Takashi Takeda, Norihisa Hoshino, Ken-ichi Sakai and Tomoyuki Akutagawa

P-73

Molecular Assembly Structures and Dielectric Properties of Dialkyl terephthalamide Derivatives

Moeko Kawana, Takashi Takeda, Norihisa Hoshino and Tomoyuki Akutagawa

P-74

Strontium-90 separation method for soil from the Fukushima environment

Kazuma Koarai, Yasushi Kino, Atsushi Takahashi, Toshihiko Suzuki, Yoshinaka Shimizu, Mirei Chiba, Ken Osaka, Yusuke Urushihara, Toshitaka Oka, Tsutomu Sekine, Manabu Fukumoto and Hisashi Shinoda

P-75

Development of hybrid Gaussian basis for 4-body exotic systems

Takuma Yamashita and Yasushi Kino

P-76

Beam-based positron annihilation lifetime spectroscopy for evaluation of the impurities of C₆₀ with encapsulated lithium cation

Kensuke Manabe, Toshitaka Oka, Takuma Yamashita, Yasushi Kino and Tsutomu Sekine

P-77

Non-adiabatic calculation of electron-muonic molecule compound in muon-catalyzed nuclear fusion

Motoaki Niiyama, Takuma Yamashita and Yasushi Kino

P-78

Investigation of radiophotoluminescence center formation mechanism in Ag-doped phosphate glasses

Hiroki Kawamoto, Masanori Koshimizu, Yutaka Fujimoto, Go Okada, Takayuki Yanagida and Keisuke Asai

P-79

Theoretical analysis on mechanism of electron transfer at oil/water interfaces by multidimensional free energy calculations

Tomonori Hirano, Lingjian, Wang, Hirofumi Tahara, Ai Koizumi and Akihiro Morita

P-80

Reaction dynamics simulation of DNA strand breaks:

Effect of high energy hydroxyl radicals

Tomohiko Okada, Keita Oikawa, Kota Hanasaki, Manabu Kanno and Hirohiko Kono

P-81

Development of a dynamics model for Coulomb explosion of I-containing molecules and C₆₀ induced by XFELs

Kohei Ochiai, Kosuke Nakamura, Kaoru Yamazaki, Manabu Kanno, Tsukasa Takanashi, Hironobu Fukuzawa, Kensuke Tono, Kiyonobu Nagaya, Kiyoshi Ueda and Hirohiko Kono

P-82

Insulator-metal transition in $\text{La}_2\text{O}_2\text{Bi}$ with Bi square net

Kota Matsumoto, Hideyuki Kawasoko and Tomoteru Fukumura

P-83

High electron conductivity in YbO epitaxial thin films

Taku Yamamoto, Daichi Saito, Kenichi Kaminaga, Daichi Oka and Tomoteru Fukumura

P-84

Synthesis of $\epsilon\text{-Ga}_2\text{O}_3$ epitaxial thin films and its dielectric property.

Subaru Yusa, Daichi Oka and Tomoteru Fukumura

P-85

Synthesis of yttrium antimonide epitaxial thin films

Noriyuki Ishigane, Hideyuki Kawasoko and Tomoteru Fukumura

P-86

Epitaxial growth of stoichiometric strontium titanate from a bimetallic complex

Ebube Evaristus Oyeka, Daichi Oka and Tomoteru Fukumura

P-87

Epitaxial growth and polymorphic control of Bi_2O_3 thin films with mist CVD

Zaichun Sun, Daichi Oka and Tomoteru Fukumura

P-88

Synthesis and Characterization of Morphology Controllable of Zinc Oxide Micron Particles

Yukiho Nishimura, Yusuke Asakura, Akiko Sumiyoshi, Ai Oyama, Takayuki Kumei and Shu Yin

P-89

Fabrication of [001] textured Nd₂Fe₁₄B magnetic thin film by high rate sputtering

Takayuki Tsuchida, Jun Fukushima, Yamato Hayashi, Shin Saito and Hirotugu Takizawa

P-90

Thermoelectric properties of a series of one-dimensional metal complexes

Hideaki Murasugi, Shohei Kumagai, Hiroaki Iguchi, Shinya Takaishi and Masahiro Yamashita

P-91

Synthesis of *p*-Nitro Derivative of Thiacalix[4]arene-*p*-tetrasulfonate Aimed at Bio-conjugation

Yuki Urata and Nobuhiko Iki

P-92

Investigation of Relationship between Coordination Environment and Lanthanide Luminescence in Lanthanide-Tripodal Schiff Base Complexes

Takafumi Kambe, Yoshikazu Yamaoka, Chikai Igarashi, Atsuko Masuya-Suzuki, Ryunosuke Karashimada and Nobuhiko Iki

P-93

Control of coordination geometry of lanthanide complex with tripodal Schiff base ligand

Satoshi Goto, Atsuko Masuya-Suzuki and Nobuhiko Iki

P-94

Development of Selective Synthesis Method for Hetero-trinuclear Lanthanide-thiacalixarene Complex

Koki Musha, Ryunosuke Karasimada and Nobuhiko Iki

P-95

Lanthanide-Thiacalix[4]arene Complex Loaded Silica Nanoparticles for Gadolinium Neutron Capture Therapy

Takumi Yamatoya, Ryo Baba and Nobuhiko Iki

P-96

Reactions of an Anionic Tungsten Complex Having a Metal-Silicon Double Bond with Aldehydes and Alkynes

Fuyumi Suzuki, Hisako Hashimoto and Hiromi Tobita

P-97

Regioselective C–H Deuteration of Phosphines with Benzene-*d*₆ Catalyzed by Iridium Complexes Bearing a Bis(silyl)xanthene Ligand

Hironori Higashi, Junpei Asagami, Takashi Komuro and Hiromi Tobita

P-98

Effect of physical properties of resin catalysts on sugar ester synthesis

Ayumu Kanezawa, Tomone Sasayama, Kousuke Hiromori, Atsushi Takahashi and Naomi Shibasaki-Kitakawa

P-99

Modeling of desorption behavior in natural vitamin E recovery by adsorption/desorption using ion-exchange resin

Miho Tanaka, Tomoya Watanabe, Kousuke Hiromori, Atsushi Takahashi and Naomi Shibasaki-Kitakawa

P-100

Chemical synthesis of pharmaceutical acid esters from unused biomass extract

Ibuki Niino, Yusuke Miwa, Kousuke Hiromori, Atsushi Takahashi and Naomi Shibasaki-Kitakawa

P-101

Selective synthesis for propylene glycol fatty acids esters, monoester and diester
Kazuki Murakami, Tomoya Watanabe, Kousuke Hiromori, Atsushi Takahashi and Naomi Shibasaki-Kitakawa

P-102

Kinetic analysis of alanine decomposition under hydrothermal conditions over a wide range of pH
Masayoshi Wagatsuma, Keisuke Suzuki, Masaru Watanabe and Richard Lee Smith Jr.

P-103

Rapid synthesis of single-nano particles of SnO₂ quantum dots in hydrothermal continuous flow reactor
Shun Horinouchi, Yuki Kurihara, Yuya Hiraga, Masafumi Takesue, Masaru Watanabe and Richard L. Smith Jr.

P-104

Cage occupancy in methane hydrates analyzed with Raman spectroscopy
Shinichiro Yamamoto, Takuya Sasagawa, Yuya Hiraga, Hiroyuki Komatsu, Masaki Ota, Takao Tsukada and Richard L. Smith, Jr.

P-105

Preparation of Au and its Alloy Nanoparticles soluble in Toluene with a Mercapt-Containing Surfactant
Rikuto Kuroda, Takahiro Nakamura and Masaru Nakagawa

P-106

Development of new Nb-based oxynitride photocatalyst by formation of solid solution
Ryosuke Aoyagi, Hideki Kato, Makoto Kobayashi and Masato Kakihana