

Summer School 2019 Schedule

Aug 27 (Tue) Workshop

9:00-9:10	Opening Remarks
9:10-9:25	O-1
9:25-9:40	O-2
9:40-10:10	O-3 (Invited)
10:10-10:25	Coffee Break
10:25-10:40	O-4
10:40-10:55	O-5
10:55-11:25	O-6 (Invited)
11:25-12:30	Lunch Break
12:30-13:20	Poster Session (Odd number)
13:20-14:10	Poster Session (Even number)
14:10-14:25	Coffee Break
14:25-15:15	Lecture-1
15:15-15:30	Coffee Break
15:30-15:45	O-7 (AMC)
15:45-16:00	O-8 (AMC)
16:00-16:15	O-9 (AMC)
16:15-16:30	O-10 (AMC)
16:30-16:45	Coffee Break
16:45-17:00	O-11 (AMC)
17:00-17:15	O-12 (AMC)
17:15-17:30	O-13 (AMC)
18:30-	Banquet

Aug 28 (Wed) Workshop

9:00-9:15	O-14
9:15-9:30	O-15
9:30-9:45	O-16
9:45-10:00	O-17
10:00-10:15	Coffee Break
10:15-10:30	O-18

10:30-11:00	O-19 (Invited)
11:00-11:30	O-20 (Invited)
11:30-13:00	Lunch Break
13:00-13:15	O-21
13:15-13:30	O-22
13:30-14:00	O-23 (Invited)
14:00-14:15	Coffee Break
14:15-14:30	O-24
14:30-14:45	O-25
14:45-15:15	O-26 (Invited)
15:15-15:30	Coffee Break
15:30-16:20	Lecture-2
16:20-16:35	Closing Remarks

August 27, 2019 (Tue)

Opening Remarks 9:00–9:10

9:00–9:05 Mr. Tsubasa Hashimoto (The Chairperson of the Summer School)

9:05–9:10 Prof. Akihiro Morita (Advisor of 2019 Summer School)

Chairperson: Tomonori Hirano (Morita Lab.)

O-1 9:10–9:25

Development of grand canonical molecular dynamics method applied to solution interfaces

Nobuya Naito, Akihiro Morita

O-2 9:25–9:40

Scanning tunneling Microscopy study of Electronic and Spin states of Single molecule magnet

Saiful Islam, Syed Mohammad Fakruddin Shahed, Tadahiro Komeda, Keiichi Katoh and Masahiro Yamashita

O-3 (Invited) 9:40–10:10

Nonionic polymer aggregation behavior at the oil-water interface as affected by varying surfactants

Rebecca M. Altman, Geraldine Richmond

10:10–10:25 Coffee Break

Chairperson: Siti Masturah (Shiku Lab.)

O-4 10:25–10:40

Electrical Property Changes of MoS₂-FET Using Carrier Doping by Molecular Adsorption

Hiroki Waizumi, Tsuyoshi Takaoka, Alam Md Iftekharul, Muhammad Shamim Al Mamun, Yudai Tanaka, Tadahiro Komeda

O-5 10:40–10:55

A highly sensitive endotoxin sensor using electrochemical reaction in nanospace

Kentaro Ito, Kumi Y. Inoue, Kosuke Ino, Yuji Nashimoto, Tomokazu Matsue, Hitoshi Shiku

O-6 (Invited) 10:55–11:25

The Effect of Halide on Cu Surface during Electrochemical CO₂ Reduction

Chiou-Chun Chang

11:25–12:30 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: Konan Ishida (Tanaka Lab.)

Lecture-1 14:25–15:15

Single Molecule Fluorescence Tracking at 10- μ s Resolution: Application to Protein Folding and Functional Dynamics

Satoshi Takahashi, Hiroyuki Oikawa

Chairperson: Elza Firdiani Sofia (Inaba Lab.)

O-7 (AMC) 15:30–15:45

Interaction of Non-canonical Bilins with smURFP as its Chromophore

Kashfia Ahamed, Toshitaka Matsui, Shin Mizukami

O-8(AMC) 15:45–16:00

Size-triggered-release Microdroplet Concentration Array for Biomolecular Assay

Piangrawee Santivongskul, Mao Fukuyama, Akihide Hibara

O-9 (AMC) 16:00–16:15

Development of novel unnatural base pairs bearing additional hydrogen bonding units for expansion of the genetic alphabet

Giang H. Trinh, Hidenori Okamura, Fumi Nagatsugi

O-10 (AMC) 16:15–16:30

Engineering of genome editing protein Cas9 that slides along DNA faster and might enable efficient target search

Trishit Banerjee, Dwiky Rendra Graha Subekti, Hiroto Takahashi, Satoshi Takahashi, and Kiyoto Kamagata

16:30–16:45 Coffee Break

Chairperson: Elza Firdiani Sofia (Inaba Lab.)

O-11 (AMC) 16:45–17:00

Coulomb explosion of CH₂I₂ molecules induced by a soft X-ray free-electron laser pulse

Yu Luo, Daehyun You, Shu Saito, Marta Berholts, Thomas Gaumnitz, Marko Huttula, Per Johnsson, Naoki Kishimoto, Hanna Myllynen, Ahmad Nemer, Akinobu Niozu, Minna Patanen, Eetu Pelimanni, Tsukasa Takanashi, Shin-ichi Wada, Naomichi Yokono, Shigeki Owada, Kensuke Tono, Makina Yabashi, Kiyonobu Nagaya, Edwin Kukk, Hironobu Fukuzawa, and Kiyoshi Ueda

O-12 (AMC) 17:00–17:15

Influence of hydrogen doping on electronic structure of VO₂ films studied by in situ photoemission spectroscopy

Billy Eric Yang

O-13 (AMC) 17:15–17:30

Scanning tunnelling spectroscopic features of 2H-NbSe₂ single crystal near the crystal defects

Alwan Abdillah Darussalam, Tadahiro Komeda

August 28, 2019 (Wed)

Chairperson: Kengo Hayashi (Ueda Lab.)

O-14 9:00–9:15

Electrodeposition-based hydrogel printing system with a pin art device

Noriko Taira, Kosuke Ino, Yuji Nashimoto, Hitoshi Shiku

O-15 9:15–9:30

Adaptation to hyperosmotic stress is regulated by an oxygen sensor protein PHD3

Ryo Tamura, Ken-ichi Yasumoto, Kazumasa Ohashi

O-16 9:30–9:45

Development of photoswitchable compounds that selectively bind to Escherichia coli dihydrofolate reductase

Takato Mashita, Toshiyuki Kowada, Hiroto Takahashi, Toshitaka Matsui, Shin_ Mizukami

O-17 9:45–10:00

Fabrication of liposome-coated SN-38 nano-prodrugs

Keitaro Yamauchi, Farsai Taemaitree, Yoshitaka Koseki, Hitoshi Kasai

10:00–10:15 Coffee Break

Chairperson: Tetsu Sato (Yamashita Lab.)

O-18 10:15–10:30

Electrical Conductivity and Redox Activity in a Naphthalenediimide-Based Porous Molecular Conductor

Liyuan Qu, Hiroaki Iguchi, Shinya Takaishi, Chanel F. Leong, Deanna M. D'Alessandro, Masahiro Yamashita

O-19 (Invited) 10:30–11:00

Elucidating the Structure-Property Relationships of Hierarchically Designed Redox-Active Frameworks

Ryuichi Murase, Richard Robson, Brendan F. Abrahams and Deanna M. D'Alessandro

O-20 (Invited) 11:00–11:30

Monitoring Catalyst Migration in a Metal–Organic Framework and its Effect on Catalysis

Cassandra Buru, Ana Platero-Prats, Karena Chapman, Omar Farha

11:30–13:00 Lunch Break

Chairperson: Kouta Matsumoto (Fukumura Lab.)

O-21 13:00–13:15

Fabrication of GaN thin film by Vapor Liquid Solid Pulsed Laser Deposition

Motoki Fujimura, Shingo Maruyama, Yuji Matsumoto

O-22 13:15–13:30

Modification of Mobile Ionic Environment and Electronic State of (Li⁺ or Na⁺)(Crown Ether)-TCNQ Salts

Kohei Sambe, Norihisa Hoshino, Takashi Takeda, Takayoshi Nakamura, Tomoyuki Akutagawa

O-23 (Invited) 13:30–14:00

Anisotropic Optical Properties of Perovskites Nanocrystals via Growth on Surface of Silica Helices

Peizhao LIU, Yutaka Okazaki, Emilie Pouget, Takashi Sagawa, Reiko Oda

14:00–14:15 Coffee Break

Chairperson: Sho Ishikawa (Terada Lab.)

O-24 14:15–14:30

Development of Novel Indole Synthesis via Ring Expansion Reaction of Oxime Sulfonate: Its Application to Total Synthesis of (+)-CC-1065 and Isobatzellines

Yumi Yamashita, Taku Imaizumi, Louna Poignant, Juri Sakata and Hidetoshi Tokuyama

O-25 14:30–14:45

Identification of biosynthetic intermediates of amnesic shellfish toxin, domoic acid and anthelmintic compound, kainic acid

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

O-26 (Invited) 14:45–15:15

Total Synthesis of Pierisketolide A

QiFei Hu

15:15–15:30 Coffee Break

Chairperson: Naoya Miyamoto (Tokuyama Lab.)

Lecture-2 15:30–16:20

What is Chemical Reaction?

Masahiko Yamaguchi

Closing Remarks 16:20–16:35

Program (Poster Sessions)

P-1

Nanoporous Gold Catalyzed Oxidation of Hydrosilanes to Siloxanes

Takumi Koshimura, Tienan Jin and Masahiro Terada

P-2

Enantioconvergent Propargylic Substitution Reaction Catalyzed by Chiral Brønsted Acid

Kyohei Takano, Yusuke Ota, Jun Kikuchi and Masahiro Terada

P-3

Development of New Chiral Organosuperbase Catalyst

Hikaru Tezuka, Azusa Kondoh, and Masahiro Terada

P-4

Amide Synthesis Utilizing Enantioselective [4+2] Cyclo-addition Reaction of Vinyl Azides with Imines Catalyzed by Chiral Brønsted Acid

Taishi Nakanishi, Jun Kikuchi, Atsushi Kaga, Shunsuke Chiba, Masahiro Terada

P-5

Gold-Catalyzed Cyclization-Intermolecular Alkylidene Transfer Sequence of O-Homopropargylic Oximes

Arinobu Hirayama, Itaru Nakamura and Masahiro Terada

P-6

Cu Catalyzed [1,3]-Alkoxy Rearrangement-Diels-Alder Cascade

Kazuki Masukawa, Yasuhiro Ishida, Itaru Nakamura and Masahiro Terada

P-7

Structural control of polydiacetylene nanofibers hybridized with metal nanoparticles

Nayu Kuniyama, Tsunenobu Onodera, Rodrigo Sato, Yoshihiko Takeda, and Hidetoshi Oikawa

P-8

Emission behaviors from organic fluorescent dyes loaded in porous zirconia medium

Yukari Sakurayama, Tsunenobu Onodera, and Hidetoshi Oikawa

P-9

Doping effect on optoelectronic properties of Cu-TCNQ nanocrystals

Fumika Matsushita, Tsunenobu Onodera, Hidetoshi Oikawa

P-10

Optical properties of titanium oxide-organic dye hybrid nanostructures

Takuya Yanagita, Tsunenobu Onodera, Rodrigo Sato, Yoshihiko Takeda, Hidetoshi Oikawa

P-11

Isolation of Samanea Ca²⁺ channel candidates using library screening system in yeast

Kazuma Iwai, Yasuhiro Ishimaru, Nobuyuki Uozumi, Minoru Ueda

P-12

JA-Ile-Macrolactone: a new chemical tool for plant defense responses

Saki Oura, Yasuhiro Ishimaru, Yosuke Takaoka, Minoru Ueda

P-13

Development of a tool molecular for elucidating the pathological mechanism of Host-Selective Toxin

Yoshinori Kurata, Masaki Imai, Nobuki Kato, Yasuhiro Ishimaru, Minoru Ueda

P-14

Analysis of activation regulation mechanism of outward K⁺ channel SPORK2 isolated from *S. saman*

Yusuke Takeuchi, Yasuhiro Ishimaru, Takaya Oikawa, Shunya Saito, Shin Hamamoto, Nobuyuki Uozumi, Minoru Ueda

P-15

Development of High Throughput Screening system for Antagonists of COI1/JAZ co-receptors based on fluorescence anisotropy

Ika Nurul Azizah, Yousuke Takaoka, Keina Nagumo, Saki Oura, Nobuki Kato, Minoru Ueda

P-16

Synthesis, Structure, and Reactivity of New Derivatives of W-Si-N Three-Membered Complexes

Masaru Okamoto, Eunsang Kwon, Hiroyuki Sakaba, and Kozo Toyota

P-17

Development of novel preparative method of ring-fused thiophene derivatives using silica gel under thermal conditions

Hiroki Tanaka, Shinichi Mikami, Hiroki Kishi, and Kozo Toyota

P-18

Reactions of 1-(adamantylsulfanyl)-2-(bromoethynyl)-benzene derivatives with secondary amines and application to molecular architecture

Shuhei Yoshida and Kozo Toyota

P-19

Development of intracellular condition-responsive linker for cancer cell selective drug delivery system

Kenta Otake, Masahito Inagaki, Yasuyuki Araki, Masaki Nishijima, Satoru Ishibashi, Takanori Yokota, and Takehiko Wada

P-20

Synthesis and characterization of chiroptical property of Face-to-Face chiral anthracene derivatives

Tomonori Kakizaki, Wijak Yospanya, Makoto Kuronuma, Masaki Nishijima, Yasuyuki Araki, Reiko Oda, and Takehiko Wada

P-21

Complexation and photo-thermal combination reactions of stilbene derivatives mediated by human serum albumin

Misaki Kawai, Masaki Nishijima, Yasuyuki Araki, Takehiko Wada

P-22

Evaluation of Ligand Properties of Isolable Two-Coordinate Divalent Silicon Species

Shunya Abe, Tomoyuki Kosai, Takeaki Iwamoto

P-23

Intermolecular C(sp³)-H Activation of Cyclic Alkenes with a Stable Divalent Silicon Species

Taichi Koike, Tomoyuki Kosai, Takeaki Iwamoto

P-24

Synthetic Study of Quinoid Compounds Containing Phosphorus and Silicon Atoms

Takehiro Sato, Shigeru Sasaki and Takeaki Iwamoto

P-25

Synthetic Study on Isolable Trialkylphosphine Radical Cations

Hiroshi Nakagawa, Shintaro Ishida and Takeaki Iwamoto

P-26

Selective conversion of carbon dioxide to formic acid by a catalyst-free hydrosilylation using porphyrin silicon dihydride complex

Takuro Hatakeyama, Shintaro Ishida, Takeaki Iwamoto

P-27

A new synthetic method for axially chiral compounds via an organocatalyst

Akira Takikawa, Seitaro Koshino, Keiichi Ishida, Yujiro Hayashi

P-28

Asymmetric cross-aldol reaction of aldehydes via organocatalyst

Kaito Nagai, Yujiro Hayashi

P-29

Synthetic Study of Quinine Using Organocatalyst

Takahiro Terunuma, Shigenobu Umemiya, Yujiro Hayashi

P-30

Synthesis and properties of carbonyl-terminated quinoidal oligothiophenes

Takato Asoh, Kohsuke Kawabata and Kazuo Takimiya

P-31

Synthesis and Property of a Macrocyclic Consisting of Benzene and Dioxaborole Moieties

Shunichi Tanaka, Kohsuke Kawabata, Kazuo Takimiya

P-32

Development of the functional molecules for alkylating G-quadruplex

Shunya Ishikawa, Hazemi Eurika Madoka, Kazumitsu Onizuka, Fumi Nagatsugi

P-33

Silyl lactonization of unsaturated carboxylic acids via silyl radical

Takuto Ojima, Moeto Inagi, Kanako Kumada, Yoshinori Kondo

P-34

Organic superbases t-Bu-P4 catalyze amination of methoxy(hetero)arenes

Kazutoshi Hayashi, Masanori Shigeno, and Yoshinori Kondo

P-35

Electrophilic C-H borylation of azobenzene

Masaya Imamatsu, Yusuke Kai, Masanori Shigeno, Yoshinori Kondo

P-36

Amide-base Generated in situ Triggered Deprotonative Functionalization of Allyl Benzenes to Form 1,3-Dienes

Akihisa Kajima, Kunihito Nakaji, Masanori Shigeno, Yoshinori Kondo

P-37

Semihydrogenation of Alkynes to (Z)-Alkenes by Catalytic HSiEt₃/I₂ System

Koto Noguchi, Kanako Kumada, Yoshinori Kondo

P-38

Direct Carboxylation of Electron-Rich Heteroarenes Promoted by LiO-t-Bu with CsF and 18-Crown-6

Kazuya Hanasaka, Keita Sasaki, Masanori Shigeno, Yoshinori Kondo

P-39

Copper-catalyzed oxidative C(sp³)-H functionalization for the synthesis of 3-hydroxyisoindolinones under molecular oxygen

Yuta Matsuzawa, Kanako Kumada, Yoshinori Kondo

P-40

Rhodium-Catalyzed Isomerization and Alkyne Exchange Reactions of 1,4-Dithiins via the 1,2-Ethenedithiolato Rhodium Complex

Mieko Arisawa, Kyosuke Sawahata, Masahiko Yamaguchi

P-41

Rhodium-Catalyzed Thiophosphorylation Reactions of Peptide Disulfides

Mieko Arisawa, Kohei Fukumoto, and Masahiko Yamaguchi

P-42

Catalytic Regioselective Ring Opening of Epoxides by Unprotected Amines

Yuse Kuriyama, Yusuke Sasano, Shogo Matsui, Akihito Noguchi, Yoshihiko Hoshino, Shun-ichiro Uesugi, Yoshiharu Iwabuchi

P-43

Pseudo-One-Pot Synthesis of α,β -Unsaturated Esters from Alcohols via Nitroxyl

Radical/Copper-Catalyzed Chemoselective Aerobic Oxidation and HWE Reaction

Aoto Yamaichi, Yusuke Sasano, Suguru Tanaka, Naoki Kanoh, Yoshiharu Iwabuchi

P-44

Synthetic Study on Arglabin and Ludartin

Hirotaka Suzuki, Michihiro Fukuda, Yusuke Sasano, Naoto Hama, Yoshiharu Iwabuchi

P-45

Synthesis Study for Decatransin

Kosuke Ohsawa, Sakiko Fukaya, Takayuki Doi

P-46

Synthetic study for cyclodepsipeptide teixobactin

Kosuke Ohsawa, Hongbin Zhao, Takuya Tokunaga, Yuichi, Masuda and Takayuki Doi

P-47

Sugar ester production from waste biomass

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

P-48

Effect of Mg fraction of magnesia-zirconia solid solution catalyst on transesterification into fatty acid ethyl ester

Tsutomu Chida, Atsushi Takahashi, Naomi Shibasaki-Kitakawa, Takuya Fukumura

P-49

Efficient separation of vegetable squalene by adsorption/desorption method

Shota Goto, Kousuke Hiromori, Atsushi Takahashi, Naomi Shibasaki-Kitakawa

P-50

Recovery of cinnamic acids from unused biomass using hydrodynamic

cavitation

Yuki Hida, Ibuki Niino, Kousuke Hiromori, Atsushi Takahashi, Naomi Shibasaki-Kitakawa

P-51

Diphenylprolinol Silyl Ether Mediated Asymmetric Michael Reaction of Aldehydes and Unsaturated Cyanoesters; A Stereoselective Gateway to Trisubstituted Piperidines.

Oдох Amaechi Shedrack, Yujiro Hayashi

P-52

Asymmetric synthesis of 1,3-syn-diols via organocatalyst-mediated aldol reaction, Henry reaction and isomerization as key steps

Xiaoling Wang, Genki Kawauchi, Yujiro Hayashi

P-53

n-type Semiconducting Properties of Dianionic Naphthalenediimide with Alkylammonium

Kawasaki Ayumi, Takashi Takeda, Norihisa Hoshino, Tomoyuki Akutagawa

P-54

Basic Benzothiazole Derivative for Sensing Material of Various Kinds of Acids

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

P-55

Even-Odd Effect and Ferroelectricity of Telephthalamide Derivatives

Moeko Kawana, Takashi Takeda, Norihisa Hoshino, Tomoyuki Akutagawa

P-56

Functional Naphthalenediimide Derivatives with n-type Semiconductor Behavior

Haruka Abe, Ayumi Kawasaki, Takashi Takeda, Norihisa Hoshino, Tomoyuki Akutagawa

P-57

Vibrational Sum Frequency Generation (VSFG) Study of Blood-compatible Acryl Polymers

Shohei Moriyama, Ken-ichi Inoue, Masaru Tanaka and Shen Ye

P-58

Evaluation of the movement of photosynthetic antenna complexes in algal cells by excitation spectral measurements on microscope

Xianjun Zhang, Sankar Jana, Shen Ye, Yutaka Shibata

P-59

Laser-Induced Forward Transfer of 2-dimensional Cr Structures by Shaped Femtosecond Laser Pulses

Yusuke Isawa, Takahiro Nakamura, and Masaru Nakagawa

P-60

Investigation of Multiplicative-type Moiré Fringes for Imprint Alignment by Image Drawing Software

Takuma Yoshida, Shunya Ito, Takahiro Nakamura, and Masaru Nakagawa

P-61

Preparation of cotton-derived cellulose nanocrystals containing carboxyl group

ThianTiong Teh, Huie Zhu, and Masaya Mitsuishi

P-62

Preparation of Langmuir-Blodgett Films of Amphiphilic Tetraphenylethylene Homopolymer

Weijie Ma, Shunsuke Yamamoto, Jun Matsui, Tokuji Miyashita, Masaya Mitsuishi

P-63

Investigation of hydrogen generation mechanism from polyethylene

Saori Inoue, Anh T. N. Dao, Yoshitaka Koseki, Chika Watanabe, Shingo Ishihara, Junya Kano, Hitoshi Kasai

P-64

Fabrication of Au/Silk hybrid nanocarriers for drug delivery system

Motofumi Nakamura, Farsai Taemaitree, Anh T. N. Dao, Hitoshi Kasai

P-65

Synthesis of cyclopentenone from biomass resources

Toshihiro Watanabe, Yoshitaka Koseki, Takaai Kamishima, Hitoshi Kasai

P-66

Analyzing change of diversity in directed evolution of binding peptides by next-generation sequencing

Sakiya Kawada, Thuy Duong Nguyen, Yoichi Kurumida, Tomoyuki Ito, Hikaru Nakazawa, Teppei Niide, Hafumi Nishi, Yutaka Saito, Tomoshi Kameda, Koji Tsuda, Mitsuo Umetsu

P-67

Machine-Learning Guided Mutagenesis for Directed Evolution of Enzyme

Takumi Sato, Masaki Oikawa, Teppei Niide, Hikaru Nakazawa, Yutaka Saito, Tomoshi Kameda, Koji Tsuda, Mitsuo Umetsu

P-68

Determination of molecular recognition area in non-immunoglobulin scaffolds used by bioinformatics

Reito Fukazawa, Tomoyuki Ito, Hafumi Nishi, Tomoshi Kameda, Teppei Niide, Hikaru Nakazawa, Mitsuo Umetsu

P-69

Creation of a new molecular recognizing protein alternative to monoclonal antibody

Mayu Yoshida, Tomoyuki Ito, Hafumi Nishi, Tomoshi Kameda, Hikaru Nakazawa, Teppei Niide and Mitsuo Umetsu

P-70

Optical control of biomolecular functions based on photoactivatable protein

labeling system

Michiyuki Suzuki, Keisuke Arai, Akimasa Yosimura, Toshiyuki Kowada, Toshitaka Matui, Kazuya Kikuchi, Shin Mizukami

P-71

Utilization of porous protein crystal as novel host molecules capable of protein encapsulation

Tsubasa Hashimoto, Takashi Matsui, Tomohisa Ogawa, Yoshikazu Tanaka

P-72

Molecular design of transmembrane β -barrel of staphylococcal pore-forming toxin

Nouran Ghanem, Natsuki Kanagami, Kein Takeda, Takashi Matsui, Tomohisa Ogawa, Jun Kaneko, and Yoshikazu Tanaka

P-73

Molecular mechanisms and physiological functions of GPx7 and GPx8, ER-resident glutathione peroxidase family members

Elza Firdiani Sofia, Shingo Kanemura, Masaki Okumura, Hiroshi Kadokura, Kenji Inaba

P-74

Development of Fluorescent Probes for Visualization and Quantification of Zn²⁺ in Organelles

Rong Liu, Toshiyuki Kowada, Tomomi Watanabe, Toshitaka Matsui, Shin Mizukami

P-75

Fluorescence imaging-based simple method for assessment of stomatal aperture using Hoechst-tagged fluorescent probe

Saki Miyagawa, Yousuke Takaoka, Shinya Tsukiji, Minoru Ueda

P-76

Synthesis of cyclized plant hormone JA-Ile-lactone analogues and evaluation of these bioactivities in model plants

Sohei Yamagami, Rina Saito, Saki Miyagawa, Kengo Hayashi, Nobuki Kato, Yasuhiro Ishimaru, Yousuke Takaoka, Minoru Ueda

P-77

Practical synthesis of a coronatine stereochemical library

Raku Watanabe, Kengo Hayashi, Sho Tozawa, Nobuki Kato, Minoru Ueda

P-78

Isolation and structural elucidation of tetrodotoxin related compounds from pufferfish

Yuji Yaegashi, Nozomi Ueyama, Yuta Kudo, Yuko Cho, Keiichi Konoki, and Mari Yotsu-Yamashita

P-79

Screening of novel secondary metabolites from microorganisms associated with the marine sponge *Halichondria okadai*

Moeka Goto, Yuko Cho, Mari Yotsu-Yamashita and Keiichi Konoki

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Cancelled

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Synthetic Studies on Rossinones

Katsuya Saito, Kazuki Kurasawa, Chiaki Takino, Shigefumi Kuwahara and Masaru Enomoto

P-82

Unified total synthesis of amorfrutins

Tadafumi Fujita, Shigefumi Kuwahara, Yusuke Ogura

P-83

Label-Free quantitative method for intracellular temperature using O-H stretching Raman band of water

Toshiki Sugimura, Shinji Kajimoto, Takakazu Nakabayashi

P-84

Development of Terpenoid Alkaloid-like Compound Library by Using Diversity-Enhanced Extracts

Shizuka Nakano, Kosuke Kawai, Akihiro Sugawara, Yoshiteru Oshima, Haruhisa Kikuchi

P-85

Creation of Sila-Meroterpenoid-Like Compounds toward Expanding Structural Diversity

Yuki Miya, Akihiro Sugawara, Shomitsu Maeno, Yoshiteru Oshima, Haruhisa Kikuchi

P-86

Synthesis, Structures, and Reactivity of Iridium and Rhodium Complexes Bearing a Silyl-1,8-Naphthyridine Chelate Ligand

Keita Sato, Takashi Komuro, Hiromi Tobita

P-87

Synthesis and Structure of a Chromium Complex with a Cr≡Si Triple Bond and Its Reactions with Alkynes

Masahiro Matsuoka, Hisako Hashimoto, Ryoma Ono, Tsukasa Matsuo, Hiromi Tobita

P-88

Geometrical Structures of Rhodium Oxide Cations Studied by Ion Mobility Mass Spectrometry

Chang Su, Toshiaki Nagata, Motoyoshi Nakano, Fuminori Misaizu

P-89

Infrared spectroscopic observation of the McLafferty rearrangement in ionized pentanone

Ryo Yasumoto, Yoshiyuki Matsuda, and Asuka Fujii

P-90

Melamine Doped Multilayer MoS₂-Field Effect Transistors

Muhammad Shamim Al Mamun, Hiroki Waizumi, Tsuyoshi Takaoka, Md Iftekhar Alam, Yudai Tanaka, Tadahiro Komeda

P-91

Effect of Chloride gas adsorption on the back-gate dependence electrical properties of MoS₂ field effect transistor

Md Iftekharul Alam, Tsuyoshi Takaoka, Kazuki Washida, Nguyen Tat Trung, Tadahiro Komeda, Hiroki Waizumi, Nobuaki Kikuchi, Osamu Kitakam

P-92

Large magnetoresistance of nonmagnetic Cu₂Sb

Mizuki Endo, Hideyuki Kawasoko, Tomoteru Fukumura

P-93

Synthesis and electrical properties of CeO epitaxial thin films

Nobuto Abe, Taku Yamamoto, Daichi Saito, Kenichi Kaminaga, Daichi Oka, Tomoteru Fukumura

P-94

Selective Crystallization of Lanthanide-Tripodal Schiff Base Complexes for the Separation of Neodymium and Dysprosium

Koji Hosobori, Yumika Abe, Ryunosuke Karashimada, Atsuko Masuya-Suzuki, and Nobuhiko Iki

P-95

Investigation of the Interaction between Nucleobases and Lanthanide-thiacalixarene Complex by Capillary Electrophoresis

Kei Kuramochi, Ryunosuke Karashimada, Nobuhiko Iki

P-96

Radioactive cesium concentration in internal organs and exposure dose of wild raccoons in Namie town, Fukushima

Takumi Ono, Yasushi Kino, Hiroaki Tamaki, Toshitaka Oka, Atsushi Takahashi,

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