ISAT16th

- Advanced Technology to Open a New Era -

Nov. 1 – Nov. 2, 2017 Hachioji, Kogakuin Univ.



Welcome Message from the Chairperson

It is my great pleasure to welcome you to the 16th International Symposium on Advanced Technology (ISAT-16). This challenging symposium has being held annually and consecutively by the collaborative universities to understand the mutual activities among the affiliated members and to foster the practical collaborations. I would like to thank for your attendance especially from overseas collaborative universities, and Japan Science and Technology Agency (JST) for sponsoring to invite young engineers and scientists from the Asian universities.

The main theme of this year's symposium is "Advanced Technologies to Open a New Era". I hope this symposium to be successful and to become an important and valuable resource under your positive contribution. I am very happy that Prof. Ei-ichi Negishi, the 2010 Nobel Laureate in chemistry and the Honorary Doctor of KU, attends this ISAT-16. I believe that it is a great opportunity for us to discuss our future closely with the distinguished scientist.

I wish you have a very pleasant stay here in Hachioji campus of KU, and a productive and fruitful symposium. I would like to express my sincere thanks to all the committee members, and to all the co-sponsored and supported institutions.



Sincerely Yours,

Mitsunobu Sato

President, Kogakuin University

The 16th International Symposium on Advanced Technology (ISAT-16)

November 1st-2nd, 2017 Kogakuin University, Japan

Main theme of ISAT-16: Advanced Technologies to Open a New Era

Topics of ISAT-16 include, but not limited to:

- 1. Biomedical Engineering and Biochemistry
- 2. Synthetic Organic Chemistry
- 3. Information and Communications Technology (ICT)
- 4. Energy and Transportation
- 5. Advanced Semiconductor Materials for Energy
- 6. Architectural Design
- 7. Intelligent Manufacture and Robot
- 8. Education and Human Science

The symposium program will consist of key-note lectures, oral presentations, and poster presentations.

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Kogakuin University

Co-Sponsored by

Southern Taiwan University of Science and Technology
The University of Danang
Danang University of Science and Technology

Supported by

Tokyo Medical University
Tokyo University of Pharmacy and Life Sciences
China University of Geosciences (Wuhan)
University of the Philippines Los Banos
University of Namibia
Harvey Mudd College

INVITATION

Dear Colleagues,

The ISAT-16 (The 16th International Symposium on Advanced Technology) will be held at Kogakuin University (Hachioji Campus, Tokyo) from November 1 to November 2, 2017. The International Advisory and Organizing Committees cordially invite you to attend the symposium and participate in its scientific and social programs. The main theme of the ISAT will be "Advanced Technologies to Open a New Era".

Presentations will consist of three categories, several keynote lectures, oral presentations, and poster presentations. Prizes will be awarded for the best presentations, especially for students. The International Advisory and Organizing Committee hope all registrants will present a paper, but acceptance of papers will be at the discretion of the committee. The official language of the symposium will be English.

In the following pages, you will find details concerning the symposium. We are looking forward to meeting you in the best season of Tokyo, Japan!

Important Deadlines

Deadline of Registration; Sep. 30, 2017 Final Paper Submission; Sep. 30, 2017

Congress Date Nov. 1-2, 2017

November 1: Key-note/Innovation Big-west/Symposium Dinner

November 2: Oral presentation/Poster session

November 3: Excursion (Invite only)

Advisory and Committee members

Organizing committee

Chairperson:

Mitsunobu Sato President of Kogakuin University

Co-chairperson:

Chein Tai President of Southern Taiwan University of Science and

Technology

Tran Van Nam President of the University of Danang

Vice-chairperson:

Ichiro Takano Vice President of Kogakuin University
Takashi Watanabe Vice President of Kogakuin University

Deng-Maw Lu Vice President of Southern Taiwan University

of Science and Technology

Le Kim Hung Rector of Danang University of Science

and Technology

Advisory Board

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Executive Chairperson:

Yukio Nakajima Kogakuin University

Committee members:

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Yasushi Nozawa Kogakuin University
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Makoto Hayashi Kogakuin University

Program committee

Program Chairperson:

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Committee members:

Yung-Peng Wang Southern Taiwan University of Science and

Technology

Le Thi Kim Oanh Danang University of Science and Technology

Hitoshi Kohri Kogakuin University Jianmei He Kogakuin University Kanta Tachibana Kogakuin University Arata Endo Kogakuin University Shinya Komuqi Kogakuin University Tomohiro Yamaguchi Kogakuin University Yukihiro Kudoh Kogakuin University Hiroki Nagai Kogakuin University Toshikazu Matsumoto Kogakuin University Yoko Kodama Kogakuin University Takahiro Yamashita Kogakuin University Yasushi Yanagisawa Kogakuin University Maki Takeuchi Kogakuin University Tomoka Endo Kogakuin University Yoko Nakamura Kogakuin University

■ Language

English will be the official language during the conference. (The language will be in Japanese at Innovation Big-west.)

■ Conference Venue

The conference will be held at Hachioji campus of Kogakuin University.

■ Conference website

http://www.kogakuin.ac.jp/isat/index.html

CORRESPONDENCE

For all enquiries, please contact the general secretary via e-mail.

Dr. Hiroki Nagai (Kogakuin University)

1-24-2 Nishi-Shinjuku, Shinjuku-ku, Tokyo 163-8677, JAPAN

E-mail: isat16@sc.kogakuin.ac.jp

SCIENTIFIC PROGRAM

The Scientific Program will include plenary lectures, invited lectures, oral and poster presentations. The official language of the Symposium is English. Registration, all lectures and the oral and poster presentations will be held at Hachioji Campus, Kogakuin University.

Presentation Guidelines

ORAL PRESENTATIONS:

The time allocated to each presentation will be:

Key-note: 35 minutes talk and 5 minutes for discussion

Invited & contributed talks: 15 minutes talk and 5 minutes for discussion Oral presentation will be given using a PC projector. ISAT will prepare a PC and a projector at each session room. Presenters may bring their own PCs.

POSTER PRESENTATIONS:

Poster presentation session is scheduled for **Thursday, November 2, at the 7**th **floor, Building No. 2**. A board (approximately 90 cm width, 200 cm height) will be available for posting each presentation. All posters will preferentially be placed on the viewing boards from **Wednesday morning (08:30), November 1**, so that they will be available for viewing during the innovation Big-west, and coffee break. On the poster board, only the paper number will be labeled. The paper title, author names, and affiliations should be prepared by the authors. Necessary tools for pinning the posters will be provided. The presenter should be available to explain his/her work in front of the poster when referees visit the poster.

ISAT Symposium Program

	November 1 st
08:30-09:30	Registration (1N-338, Lobby)
09:30-09:40	Opening Ceremony of ISAT (Room; 1N-338)
09.30-09.40	Opening remark; Prof. Mitsunobu Sato
	Key-note Lecture 1 (Kogakuin University)
09:40-10:40	Prof. Ei-ichi Negishi, Prof. Mitsunobu Sato, Mr. Hiroyuki
09.40-10.40	Umetani, Prof. Hiroto Hamane
	Title; Solar Car Project
10:40-11:00	Coffee Break
11:00-11:40	Key-note Lecture 2 (Southern Taiwan University of Science and
	Technology)
	Prof. Chein Tai, Prof. Chun-Sheng Chang
	Title; Current Situation and Prospect of Biotechnology Industry
	in Taiwan
11:40-12:20	Key-note Lecture 3 (The University of DaNang, University of
	Science and Technology)
	Prof. Mai H.N., Prof. Linh V.T.B.
	Title; A Method Control of Robot Manipulator with Elastic links
12:20-13:30	Lunch (Student Center 2F, Invite only; Building No.2, 7 th floor)
13:30-13:45	Opening Ceremony of Innovation Big-West (Room; 1N-338)
13:45-14:30	経済産業省基準認証政策課課長 萩原崇弘 氏
	Title; オープンイノベーションにおける知財・標準化戦略
14:30-15:15	科学技術振興機構(JST)研究開発戦略センター 島津博基 氏
	Title; オープンイノベーション時代の研究開発戦略
15:15-17:00	Innovation Big-West (Room; Building No.2, 7 th floor)
17:30-19:30	Symposium Dinner (Student Center 2F)

The 16th International Symposium on Advanced Technology (ISAT-16)

November 2 nd		
Oral Session	Oral Session	
Session 1 (02-	-114)	
09:20-09:40	Gang He	
O001	Fabrication of PZT thin films from CSD to Combinatorial	
	Chemistry and FGM	
09:40-10:00	Likius Shipwiisho Daniel, Ateeq Rahman, Veikko Uahengo	
0002	Pd-MCM-41 and Ni-Boride-Silica Catalyst Synthesis,	
	Characterization and its Application for Reduction of Substituted	
	Aromatics: An Environmentally Benevolent Approach	
10:00-10:20	Masato Morita, Toshihide Kawai, Takeo Okumura, Hideki Tomita,	
O003	Sakamoto Tetsuo	
	Element-Selective Imaging for Radioactive Materials by means of	
	Resonant Laser Ionization Sputtered Neutral Mass Spectrometry	
10:20-10:40	Coffee Break	
10:40-11:00	This paper has been withdrawn by the author	
0004		
11:00-11:20	Shiro Seki, Keitaro Takahashi, Yuki Ishino, Wataru Murata, Maho	
0005	Yanagisawa, Tomohito Suzuki, Eri Tabata, Fumitaka Oyama	
	Room-Temperature Ionic Liquids as Electrolyte Materials for	
	Energy Storage / Conversion Devices and Analysis Tools	
11:20-11:40	Xiaohu Zhang, Uahengo Veikko, Jin Mao, Ping Cai and Tianyou	
O006	Peng	
	Photocatalytic Splitting of Water for Hydrogen Production Over a	
	Ru ²⁺ Dye-Sensitized TiO ₂ based complexes within the Visible	
	Region	
11:40-12:00	Qin Shuai, Shengrui Xu	
O007	Application of calcium-based nano-materials in comprehensive	
	utilization of coal resources	
Session 2 (02-	-164)	
09:20-09:40	Chia-Wei Kuo, Wen-Shan Chen, Chao-Tang Yu	
O101	MIMO Antenna Solution for Terminal Device	
09:40-10:00	Hiromichi Ogawa, Aki Kobayashi	
O102	Calculation of Program Similarity by Convolution Kernel using	
	Abstract Syntax Tree	

The 16th International Symposium on Advanced Technology (ISAT-16)

10:00-10:20	Wen-Shan Chen, Rong-Da Lin
O103	DESIGN OF EIGHT-BAND ANTENNA FOR LAPTOP APPLICATIONS
10:20-10:40	Coffee Break
10:40-11:00	Yuki Udagawa, Osamu Mizuno
O104	Priority Control Using Multiple-Paths for Smart Grid
	Communications
11:00-11:20	Chao-Tang Yu, Liang-Bi Chen, Wei-Wen Hu, Wan-Jung Chang,
O105	Jing-Jou Tang, Da-Huei Lee
	Development of the Next-Generation Internet of Vehicles
	Communication System for Driving Safety (I)
11:20-11:40	Masafumi Koike, Osamu Mizuno
O106	Improvement of Cache Reference Rate using Transmitted
	History in Information-Centric Networking-based Wireless
	Sensor Network
11:40-12:00	Ding-Horng Chen, Tsai-Rong Chang, Chi-Duan Chiou
O107	A Research of Tennis Video Segmentation and Player Movement
	Analysis
Session 3 (02	-264)
09:20-09:40	Hiromi Sugimoto, Haruka Hino, Yusuke Takahashi, Shigehiro
O201	Hashimoto
	Effect of Surface Morphology of Scaffold with Lines of Micro
	Ridges on Deformation of Cells In Vitro
09:40-10:00	Quoc Thien Pham, Nai Shang Liou, Irsyadi Yani, Yulia Resti
O202	The development and application of HSI system for bruise
	detection
10:00-10:20	Kenta Sugimoto, Yusuke Takahashi, Haruka Hino, Shigehiro
O203	Hashimoto
	Effect of Mechanical Property of Scaffold Surface on Cell
	Migration
10:20-10:40	Coffee Break
10:40-11:00	Ryo Machida, Hisaya Tanaka
O204	Dynamic Detection Method with Auto Gain Control for Leg Motor
	Imagery in Brain Computer Interface
11:00-11:20	Yusuke Takahashi, Haruka Hino, Shigehiro Hashimoto
O205	Measurement of Deformability of Cell by Slits between Micro-
	machined Cylindrical Pillars

The 16th International Symposium on Advanced Technology (ISAT-16)

11:20-11:40	Takuya Tamura, Haruka Hino, Shigehiro Hashimoto
O206	Excess Gravity Affects Cell Behavior After Stimulation
11:40-12:00	Haruka Hino, Hiromi Sugimoto, Yusuke Takahashi, Shigehiro
O207	Hashimoto
	Endothelial Cell Behavior After Stimulation of Couette Type of
	Shear Flow
Session 4 (02-	-564)
10:40-11:00	Susan E. Martonosi
O301	Global Collaboration: An Essential Skill in the 21st Century
11:00-11:20	Satoru Takagi
O302	Several Ways to Improve Our Education
11:20-11:40	Pin-Chun Chao
O303	Visions for the Senior Learning Program Influences the Learner's
	Attitude Towards Citizen Participation
12:00-13:00	Lunch (Student Center 2F, Invite only; Building No.2, 7 th floor)
13:00-15:30	Poster Session (Room; Building No.2, 7 th floor)
13:00-14:10	Odd number
14:20-15:30	Even number
16:00-16:30	Closing Ceremony of ISAT16 th (Room; 1N-338)
	·Best Poster Award Ceremony
	·Closing remark

Poster Session

P001	Sumito Ukai, Masanori Shiomi
	Forming of Aluminum Foams by Deposition Process
P002	Reiichi Tokumoto, Takashi Tominaga, Eiichiro Yokoi, Masayoshi Tateno
	Secondary Machining Effects of Free Surface Edges of Bonded Dissimilar
	Materials (Case of Ceramic-Metal Joint)
P003	Kazuki Iida, Satoshi Sudo, Masayoshi Tateno
	Removal Amount of Surface introduced Indentation Crack on Evaluation
	of Fracture Toughness for Single Crystal Silicon Wafer
P004	Sho Kawabata, Takashi Yamamoto
	Optimization of micro structure of sound-absorbing poroelastic materials
P005	Shogo Toyama, Hideki Takezawa
	Change in Magnetic Flux Density Consider of Internal Temperature for
	Permanent Magnets by EDM
P006	Shingo Hayashi, Hideki Takezawa
	Change in Finish EDM Surface with Micro-bubble Mixed EDM Fluid
P007	Hirofumi Ohta, Fumiko Akagi
	Calculation Model of Magneto-Impedance Sensor Using Amorphous Wires
P008	Noriki Shirai, Ryusuke Suzuki, Yukihiro Kudoh, Taiju Takahashi
	Evaluation of Flexoelectoric Coefficient (e_{11} + e_{33}) with ZLI-2293 Using
	Impurity Ion Traps
P009	Takuya Okada, Yukihiro Kudoh, Taiju Takahashi
	Fundamental Study on Forming PI Alignment Films for Liquid Crystal by
	Mist Deposition Method
P010	Ryuhei Ozawa, Yutaka Suwazono, Yukihiro Kudoh, Hiroki Nagai,
	Mitsunobu Sato, Taiju Takahashi
	Thickening of TiO ₂ Film Formed by ESD Method Using Molecular Precursor
	Solution
P011	Yusuke Nakajima, Kazuki Uehara, Takeyoshi Onuma, Tomohiro
	Yamaguchi, Tohru Honda
	Near surface band bending in InN films grown by DERI method
P012	Ryosuke Nawa, Takeyoshi Onuma, Tomohiro Yamaguchi, Tohru Honda
	Fabrication of Si micro-cup substrate and its application for integration of
	μ-LEDs

The 16th International Symposium on Advanced Technology (ISAT-16)

P013	Mizuki Ono, Takeyoshi Onuma, Kohei Sasaki, Hiroki Nagai, Tomohiro Yamaguchi, Masataka Higashiwaki, Akito Kuramata, Shigenobu
	Yamakoshi, Mitsunobu Sato, Tohru Honda
	Origin of free holes and visible light absorption in p-type NiO films
P014	Kenichiro Rikitake, Tomohiro Yamaguchi, Takeyoshi Onuma, Tohru
	Honda
	Bandgap Engineering of a-Ga ₂ O ₃ Films Grown by Mist Chemical Vapor Deposition
P015	Takuya Kobayashi, Kazuki Sawamoto, Shinya Aikawa, Tomohiro
. 515	Yamaguchi, Takeyoshi Onuma, Tohru Honda
	Fabrication of TFT using amorphous In ₂ O ₃ thin film by mist CVD
P016	Yuki Chunobayashi, Ryosuke Nawa, Yuki Takahashi, Haruka Matsuura,
. 515	Tomohiro Yamaguchi, Takeyoshi Onuma, Tohru Honda
	Formation of Black Matrix for Realization of Micro-LED Display
P017	Daichi Taka, Tomohiro Yamaguchi, Takeyoshi Onuma, Tohru Honda
1 017	Unintentionally Doped Impurities in GaN Layer Grown by RF-MBE
P018	Kiyotaka Fukuda, Takeyoshi Onuma, Liwen Sang, Tomohiro Yamaguchi,
	Tohru Honda, Masatomo Sumiya
	Photothermal Deflection Spectra of Gallium indium nitride layers grown
	by MOVPE
P019	Haruka Matsuura, Takeyoshi Onuma, Tohru Honda, Tomohiro Yamaguchi
	Impact of mask materials on dry etching of GaN using ICP-RIE
P020	Yuki Takahashi, Takeyoshi Onuma, Hiroki Nagai, Tomohiro Yamaguchi,
	Mitsunobu Sato, Tohru Honda
	Near-the surface Fermi level measured In ₂ O ₃ and Ga ₂ O ₃ thin films by
	molecular precursor method
P021	Kai-Hsuan Li, Bo-Lin Lin, Ruey-Ching Twu
	Disposable Flowing Container for Liquid Concentration Measurement in a
	Heterodyne Interferometer
P022	Cheng-Hsin Chuang, Chung-Lin Huang, Yu-Bin Huang, Cheng-Chien
	Wang, Chuh-Yung Chen
	Development of a Stretchable Smart Fabric Based Force Sensor Utilizing
	PVDF Nanofibers Obtained via Electrospinning
P023	Hsiang-Jung Wu, Hiroki Nagai, Mitsunobu Sato
	Fabrication and characterization of p-type Cu ₂ O Thin Film Transistor by
	using molecular precursor method

The 16th International Symposium on Advanced Technology (ISAT-16)

P024	Alina Uusiku, Hiroki Nagai, Mitsunobu Sato
	Effect of applied voltage on the synthesis of Cu(II) complex of EDTA in
	aqueous solutions, from copper plates by electrochemical process
P025	Yuuki Fukuda, Tatsuya Suzuki, Hiroki Nagai, Mitsunobu Sato
	Transparent and conductive composite thin-film fabricated on quartz with
	carbon-nanotube and Titania
P026	Yutaka Suwazono, Hiroki Nagai, Mitsunobu Sato
	Reduction of CuO thin films by light irradiation in an aqueous solution
P027	Tatsuya Suzuki, Hiroki Nagai, Mitsunobu Sato
	Photovoltaic, energy-storage and all-solid-state device fabricated by
	using precursor solutions for titania and lithium-cobalt-oxide thin-films
P028	Philipus N. Hishimone, Hiroki Nagai, Mitsunobu Sato
	Electrical Resistance of a MWCNT/Cu Composite Thin-Film Fabricated
	From an Aqueous Solution Containing Cu(II) Complexes and MWCNT
P029	Ken Tokunaga, Fumiya Odate, Keishiro Tahara, Mitsunobu Sato
	Molecular Quantum-Dot Cellular Automata made of Biferrocenium
	Complexes: Prediction of Device Operation using Electrostatic Potential
P030	Yusuke Muramatsu, Hideki Hashimoto, Hidetaka Asoh
	Influence of Electrolysis Conditions on Anodic Electrochemical Exfoliation
	of Graphite
P031	Akane Terasawa, Mizuki Itoh, Hirofumi Inada, Taigo Takaishi, Hidetaka
	Asoh, Hideki Hashimoto
	Reaction between Iron Oxide Powder and Low-Melting-Point Lead-Free
	Frits for Red Overglaze Enamel Decorations of Porcelain
P032	Ryota Imai, Hideki Hashimoto, Hidetaka Asoh
	Chemical Etching of GaAs using Au Nanodots as a Catalyst
P033	Masahiro Soeno, Shoma Nishikata, Hiromitsu Takaba
	Theoretical Design of Cathode Electrode Catalyst in Lithium Air Cell
P034	Hayato Higuchi, Hiromitsu Takaba
	Molecular Simulation of Forward / Reverse Osmosis Processes Across
	Membranes
P035	Fumiya Hirosawa, Hiromitsu Takaba
	Multicomponent gas permeation model for hydrocarbon separation using
	MFI zeolite membrane

The 16th International Symposium on Advanced Technology (ISAT-16)

P036	Misato Nakamura, Masahiro Soeno, Hiromitsu Takaba
	AI Induction of Unknown Parameters in Numerical Analysis of Li-air
	battery Performance
P037	Yuito Koga, Kazu Okumura
	Direct Inclusion and Catalysis of Triphenylphosphine Derivatives in the
	Zeolite Y Supercage
P038	Koji Hiraoka, Hitoshi Kohri, Shiro Seki
	Relationship between microstructure and thermoelectric properties of (Ti,
	Zr)NiSn alloy
P039	Yuki Ishino, Shiro Seki, Keitaro Takahashi, Wataru Murata
	Investigation of degradation factor for Lithium-Sulfur batteries by
	quantitative determination analysis using UV-vis spectra
P040	This paper has been withdrawn by the author
P041	Keitaro Takahashi, Yuki Ishino, Maho Yanagisawa, Wataru Murata, Shiro
	Seki
	How combine two effective approaches of high performance factors for
	Lithium-Sulfur butteries? -Super concentrated lithium salt electrolyte and
	non-interactive dilute solvent-
P042	Naoya Yoshida, Taiki Genma, Toshiyuki Kuriya, Kazuto Fukasawa,
	Toshinori Okura
	Effects of 2D Inverse Opal Structure on Static and Dynamic Wettability
P043	Naoki Matsuoka, Naoya Yoshida, Kimihiro Yamashita, Toshinori Okura
	Synthesis of H ⁺ Conductive Na ₄ Y _{0.6} P _{0.2} Si _{2.8} O ₉ Glass-ceramic Solid
	Electrolyte
P044	Naoyuki Inoue, Naoya Yoshida, Toshinori Okura
	Preparation and Characterization of Bi doped Tricalcium Phosphate
P045	Yoshikazu Kaji, Naoya Yoshida, Kimihiro Yamashita, Toshinori Okura
	Ionic Conductivity of H ⁺ Conductive Na ₂ O-Fe ₂ O ₃ -P ₂ O ₅ -SiO ₂ Glass-
	ceramics
P046	Yuki Iwai, Naoya Yoshida, Toshinori Okura
	Preparation and Characterization of Metal-doped Calcium Phosphate
P047	Po-Chia Huang, Jow-Lay Huang, Sheng-Chang Wang
	SnS and SnS ₂ Nanocrystals as Effective Electrocatalysts for the Hydrogen
	Evolution Reaction

The 16th International Symposium on Advanced Technology (ISAT-16)

P048	Duong Thi Hong Phan, Le Minh Duc, Dao Hung Cuong Synthesis and mechnical properties of APTS (3-aminopropyl triethoxysilane) grafted TiO ₂ -epoxy nanocomposites
P049	Dinh Lam Nguyen, Thi Thuy Hang Phan
	A study on physico-mechanical and anticorrosive properties of chemically
	modified Graphene-based Epoxy nanocomposite coatings
P050	Phan The Anh, Dang Kim Hoang
	Preparation of nitrogen-doped carbon foam and its applications in waste
	oil treatment and photocatalyst
P051	Yuzo Itoh, Kei Nakahira, Tadatomo Kawai
	Analysis of high thermal conductivity mechanism of 2,7-naphthalene
	benzoate twin mesogen epoxy polymer that have alkyl chain length 4
P052	Yuzo Itoh, Yuta Abe, Tadatomo Kawai
	Analysis of high thermal conductivity mechanism of the phenyl benzoate
	twin-mesogen epoxy polymers with alkyl chain length of odd number
P053	Yuzo Itoh, Kentaro Goma, Tadatomo Kawai
	Study on higher order structure change of rubber material NBR after the
	high pressure hydrogen exposure by ab initio molecular orbital
	calculations
P054	Yuzo Itoh, Yusuke Suzuki, Tadatomo Kawai, Hirotada Fujiwara, Shin
	Nishimura
	Study on the higher order structure changes of NBR rubber materials
	with different cross-linked densities after the high-pressure hydrogen
	exposure by FT-IR spectroscopy
P055	Shohei Shiomoto, Kazuo Yamaguchi, Motoyasu Kobayashi
	Specific Water Elongation Behavior on Micro-Patterned Polyelectrolyte
	Brush
P056	Haruka Koreeda, Tetsuo Sakamoto
	Development of ion beam by using electrospray for atmospheric SIMS
P057	Wen Ge, Yifan Jin, Taisong He
	Study on double pulsed nano Ni/ZrO ₂ functional gradient materials and
D0.75	high temperature corrosion performance
P058	Takahiro Onozawa, Keita Kanenari, Masato Morita, Tetsuo Sakamoto
	Development of a Method for TOF-SIMS analysis of Hydrated Single Cell

The 16th International Symposium on Advanced Technology (ISAT-16)

DOLO	Fri Tabata Akinari Kashimura Catashi Wakita Misa Ohna Masayashi
P059	Eri Tabata, Akinori Kashimura, Satoshi Wakita, Misa Ohno, Masayoshi
	Sakaguchi, Yasusato Sugahara, Fumitaka Oyama
	Chicken acidic chitinase can function as digestive enzyme which degrades
	chitin-containing organisms under its gastrointestinal tract
P060	Masahiro Kimura, Takatoshi Umeyama, Satoshi Wakita, Kazuaki Okawa,
	Masayoshi Sakaguchi, Fumitaka Oyama
	Comparative analysis of mouse mammalian chitinases and Serratia
	marcescens chitinase B
P061	Takashi Watanabe, Masahiro Kimura, Masayoshi Sekine, Masayoshi
	Sakaguchi, Fumitaka Oyama
	Characterization of Escherichia coli-produced mouse and human
	chitotriosidase proteins
P062	Satoshi Wakita, Masahiro Kimura, Masayoshi Sakaguchi, Yasusato
	Sugahara, Fumitaka Oyama
	Enzymatic properties of acidic mammalian chitinase under somatic tissue
	pH conditions
P063	Maiko Uehara, Eri Tabata, Misa Ohno, Masayoshi Sakaguchi, Fumitaka
	Oyama
	Gene expression analysis of chitinases by qPCR in crab-eating monkey
	tissues
P064	Nobuhiro Aburai, Hiroaki Kazama, Katsuya Abe
	Toward metabolic switching: directly-modulated biosyntheses of polyene
	metabolites in photosynthetic microorganisms
P065	Nobuyuki Yasuda, Nobuhiro Aburai, Katsuya Abe
	Synthesis and characterization of novel enzyme-CdS nanoparticles for
	photooxidation of NADH to NAD+
P066	Kazushi Mita, Nobuhiro Aburai, Katsuya Abe
	Discovery of new antibacterial chlorophylls in colony of aerial microalgae
P067	Ken Tokunaga, Shota Nagasawa, Takahiro Kajiki, Yoichiro Ito, Ryo
	Akiyama
	Motion and Energy Conversion of Solvation Motor driven by a Reaction
	on the Surface
P068	Yuka Nakamura, Akira Yoshimori, Ryo Akiyama, Tsuyoshi Yamaguchi
	Solvation Effects on Diffusion of Macromolecule
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The 16th International Symposium on Advanced Technology (ISAT-16)

P069	Tomomi Sasaki, Osamu Ohno, Akira Asai, Osamu Takikawa, Kenji
	Matsuno
	Identification of kynurenine-production inhibitor from a marine
	cyanobacterium
P070	Masato Ono, Kenjiro Sugiyama, Masaharu Yamada
	Analysis of Quality Change in Ground Roasted Coffee Packaged with
	Nitrogen Gas Using ESR Spectroscopy
P071	Junichi Nakamura, Kenjiro Sugiyama, Masaharu Yamada
	Development of a Novel Observation Procedure for Gluten
	Microstructure in White Salted Noodles
P072	Kyouhei Inasaka, Masaharu Yamada, Kenjiro Sugiyama
	Functional analysis of ACR12 in the Arabidopsis root
P073	Keisuke Kakishima, Yusuke Takahashi, Shigehiro Hashimoto
	Deformation of Cell Passing through Micro-slit Made by Micro Machining
P074	Manabu Watanabe, Yusuke Takahashi, Shigehiro Hashimoto
	Myoblast Behavior around Surface Electrodes in Micro Flow Channel
P075	Yoshinori Hori, Yusuke Takahashi, Shigehiro Hashimoto, Kenta Sugimoto
	Measurement of Contraction Force of Single Myotube by Electric
	Stimulation Using Thin Film Device
P076	Yusei Kachi, Hiromi Sugimoto, Haruka Hino, Shigehiro Hashimoto
	Effect of Couette Type of Shear Flow on Migration of Cell
P077	Yusuke Nakano, Yusuke Takahashi, Shigehiro Hashimoto, Toshitaka
	Yasuda
	Deformability of Cell Passing through Single Micro Slit between Walls
P078	Tsubasa Ito, Takuya Tamura, Haruka Hino, Shigehiro Hashimoto
	Effect of Hyper Gravitational Force on Cells Cultured on Micro pattern
P079	Toshihiro Yamamoto, Haruka Hino, Shigehiro Hashimoto
	Electric Impedance of Cells Oriented on Micro-pattern
P080	Shingo Okuzumi, Haruka Hino, Shigehiro Hashimoto
	Effect of Flow on Cultured Cell at Micro-pattern
P081	Kazuto Nakano, Yongchol Shin, Yasutada Imamura
	Extracellular matrix in planarians
P082	Kazuma Matsui, Tomohiro Umezu, Junko H. Ohyashiki, Yutaka Fukuoka
	A Method to Extract Differential Mutations by Comparing Next Generation
	Sequencing Data from Two Conditions

The 16th International Symposium on Advanced Technology (ISAT-16)

P083	Paulus Shigwedha, Yuichi Kimura, Yutaka Fukuoka
	Improving the estimation of the distribution volume with Logan graphical
	analysis in PET receptor imaging by linear least-squares cubic regression
	method
P084	Yoshitaka Ota, Takeshi Tsutsumi, Yutaka Fukuoka
	Evaluation of Accuracy in Measurement of Torsional Eye Movement
	Using Video-oculography
P085	Chi-Sheng Chien, Ping-Kun Wu, Tsung-Yuan Kuo
	Production of fluorapatite coating on pure titanium surface by micro-arc
	oxidation
P086	Chi-Sheng Chien, Syuan-Ming Syu, Tsung-Yuan Kuo
	Formation the tantalum coating on titanium substrate surface by micro
	arc oxidation
P087	Katsuya Tajima, Satoshi Akanuma, Akiko Matsumoto-Akanuma, Daisuke
	Yamanaka, Ken-ichi Ishibashi, Yoshiyuki Adachi, Naohito Ohno
	Characteristics of a modified laccase on polyphenol polymerization and
	immunomodulating effect of the polymerized polyphenols
P088	Takashi Toyoshima, Ken-ichi Ishibashi, Daisuke Yamanaka, Yoshiyuki
	Adachi, Naohito Ohno
	Influence of exogenous β-glucan on morphology and antifungal
	susceptibility of Aspergillus fumigatus
P089	Kazumasa Mori, Masakazu Yotsugi, Motohide Aoki, Tatsuya Uchida,
	Hidetoshi Kumata, Tomonari Umemura
	Investigation of Diastereomeric Derivatization of Amino Acids on Solid-
	Phase
P090	Hidetoshi Fujita, Satoko Aratani, Maho Yokota, Toshihiro Nakajima
	Development of novel regulatory methods of mitochondrial functions
P091	Kohei Harada, Hiroki Miyauchi, Yuki Aota, Katsuhiko Okada, Shoko
	Fujiwara, Mikio Tsuzuki
	A new type of photobioreacter and possible usage of wastewater in the
	culture and phosphate recovery treatment
P092	Kentaro Hozumi, Jun Kumai, Fumihiko Katagiri, Yamato Kikkawa,
	Motoyoshi Nomizu
	Development of Laminin Active Peptide-Polysaccharide Matrices as Cell
	Adhesive Biomaterials
	J

The 16th International Symposium on Advanced Technology (ISAT-16)

Thi Minh Hanh Truong, Thi Ngoc Thu Tran Optimization for extrating isoflavones from soybean by stirring method using ethanol P094 Quoc Thien Pham, Hung-Ta Wang, Ming-Shing Tien, Nai-Shang Liou Measuring Mechanical Properties of Pear Flesh under Impact Load P095 Yi-Chun Du, Shi-Han Chen, Cheng-Bang Shih, Ming-Jui Wu COMBINING PHYSIOLOGICAL AND DIALYSIS DATA TO MONITOR MULTI-BED PATIENTS DURING HEMODIALYSIS P096 Yi-Chun Du, Ying-Yi Hsu, Cheng-Chang Yen DESIGN A HEADGEAR USING DICOM IMAGE FOR POSITIONING OF DEEP PENETRATING ELECTROMAGNETIC STIMULATION P097 Tomohiro Watanabe, Tomoko Hashimoto, Osamu Ohno, Kazuyuki Furuta, Satoshi Tanaka, Kenji Matsuno Synthetic studies on GPR35 agonist without specific difference P098 Hayato Yoshioka, Kazuo Yamaguchi, Motoyasu Kobayashi Effect of Fluoroalcohol on Atom Transfer Radical Polymerization of Styrene Derivatives P099 Shin-ichiro Tanaka, Motoyasu Kobayashi Measurement of Molecular Interaction Forces of Biocompatible Poly(sulfobetaine) Brushes In Water P100 Hiromasa Iwata, Minako Naito, Eiko Yasui, Masaaki Miyashita, Shinji Nagumo Synthesis of 26-Membered Lactone Moiety in Arenicolide A P101 Jyunpei Tsuda, Eiko Yasui, Shinji Nagumo Synthesis of 1,2-Benzodiazepine Derivatives from Hydrazones derived from σ-Diazoesters P102 Masahiro Ozawa, Daisuke Katsumi, Eiko Yasui, Shinji Nagumo Synthetic Study of Sekothrixide P103 Yuuki Sakata, Eiko Yasui, Shinji Nagumo Novel Tandem Cyclization Utilizing Acetylene Cobalt Complex P104 Youhei Kamijyo, Sho Sunagawa, Eiko Yasui, Shinji Nagumo Synthetic study of Arenicolide C P105 Masako Ishida, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito Studies toward Asymmetric Synthesis of Clavubicyclone P106 Iori Takizawa, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito Asymmetric Total Synthesis and Structure Revision of Guignardones		
using ethanol P094 Quoc Thien Pham, Hung-Ta Wang, Ming-Shing Tien, Nai-Shang Liou Measuring Mechanical Properties of Pear Flesh under Impact Load P095 Yi-Chun Du, Shi-Han Chen, Cheng-Bang Shih, Ming-Jui Wu COMBINING PHYSIOLOGICAL AND DIALYSIS DATA TO MONITOR MULTI-BED PATIENTS DURING HEMODIALYSIS P096 Yi-Chun Du, Ying-Yi Hsu, Cheng-Chang Yen DESIGN A HEADGEAR USING DICOM IMAGE FOR POSITIONING OF DEEP PENETRATING ELECTROMAGNETIC STIMULATION P097 Tomohiro Watanabe, Tomoko Hashimoto, Osamu Ohno, Kazuyuki Furuta, Satoshi Tanaka, Kenji Matsuno Synthetic studies on GPR35 agonist without specific difference P098 Hayato Yoshioka, Kazuo Yamaguchi, Motoyasu Kobayashi Effect of Fluoroalcohol on Atom Transfer Radical Polymerization of Styrene Derivatives P099 Shin-ichiro Tanaka, Motoyasu Kobayashi Measurement of Molecular Interaction Forces of Biocompatible Poly(sulfobetaine) Brushes In Water P100 Hiromasa Iwata, Minako Naito, Eiko Yasui, Masaaki Miyashita, Shinji Nagumo Synthesis of 26-Membered Lactone Moiety in Arenicolide A P101 Jyunpei Tsuda, Eiko Yasui, Shinji Nagumo Synthesis of 1,2-Benzodiazepine Derivatives from Hydrazones derived from a-Diazoesters P102 Masahiro Ozawa, Daisuke Katsumi, Eiko Yasui, Shinji Nagumo Synthetic Study of Sekothrixide P103 Yuuki Sakata, Eiko Yasui, Shinji Nagumo Novel Tandem Cyclization Utilizing Acetylene Cobalt Complex P104 Youhei Kamijyo, Sho Sunagawa, Eiko Yasui, Shinji Nagumo Synthetic study of Arenicolide C P105 Masako Ishida, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito Studies toward Asymmetric Synthesis of Clavubicyclone	P093	Thi Minh Hanh Truong, Thi Ngoc Thu Tran
P094 Quoc Thien Pham, Hung-Ta Wang, Ming-Shing Tien, Nai-Shang Liou Measuring Mechanical Properties of Pear Flesh under Impact Load P095 Yi-Chun Du, Shi-Han Chen, Cheng-Bang Shih, Ming-Jui Wu COMBINING PHYSIOLOGICAL AND DIALYSIS DATA TO MONITOR MULTI-BED PATIENTS DURING HEMODIALYSIS P096 Yi-Chun Du, Ying-Yi Hsu, Cheng-Chang Yen DESIGN A HEADGEAR USING DICOM IMAGE FOR POSITIONING OF DEEP PENETRATING ELECTROMAGNETIC STIMULATION P097 Tomohiro Watanabe, Tomoko Hashimoto, Osamu Ohno, Kazuyuki Furuta, Satoshi Tanaka, Kenji Matsuno Synthetic studies on GPR35 agonist without specific difference P098 Hayato Yoshioka, Kazuo Yamaguchi, Motoyasu Kobayashi Effect of Fluoroalcohol on Atom Transfer Radical Polymerization of Styrene Derivatives P099 Shin-ichiro Tanaka, Motoyasu Kobayashi Measurement of Molecular Interaction Forces of Biocompatible Poly(sulfobetaine) Brushes In Water P100 Hiromasa Iwata, Minako Naito, Eiko Yasui, Masaaki Miyashita, Shinji Nagumo Synthesis of 26-Membered Lactone Moiety in Arenicolide A P101 Jyunpei Tsuda, Eiko Yasui, Shinji Nagumo Synthesis of 1,2-Benzodiazepine Derivatives from Hydrazones derived from a-Diazoesters P102 Masahiro Ozawa, Daisuke Katsumi, Eiko Yasui, Shinji Nagumo Synthetic Study of Sekothrixide P103 Yuuki Sakata, Eiko Yasui, Shinji Nagumo Novel Tandem Cyclization Utilizing Acetylene Cobalt Complex P104 Youhei Kamijyo, Sho Sunagawa, Eiko Yasui, Shinji Nagumo Synthetic study of Arenicolide C P105 Masako Ishida, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito Studies toward Asymmetric Synthesis of Clavubicyclone		Optimization for extrating isoflavones from soybean by stirring method
Measuring Mechanical Properties of Pear Flesh under Impact Load P095 Yi-Chun Du, Shi-Han Chen, Cheng-Bang Shih, Ming-Jui Wu COMBINING PHYSIOLOGICAL AND DIALYSIS DATA TO MONITOR MULTI-BED PATIENTS DURING HEMODIALYSIS P096 Yi-Chun Du, Ying-Yi Hsu, Cheng-Chang Yen DESIGN A HEADGEAR USING DICOM IMAGE FOR POSITIONING OF DEEP PENETRATING ELECTROMAGNETIC STIMULATION P097 Tomohiro Watanabe, Tomoko Hashimoto, Osamu Ohno, Kazuyuki Furuta, Satoshi Tanaka, Kenji Matsuno Synthetic studies on GPR35 agonist without specific difference P098 Hayato Yoshioka, Kazuo Yamaguchi, Motoyasu Kobayashi Effect of Fluoroalcohol on Atom Transfer Radical Polymerization of Styrene Derivatives P099 Shin-ichiro Tanaka, Motoyasu Kobayashi Measurement of Molecular Interaction Forces of Biocompatible Poly(sulfobetaine) Brushes In Water P100 Hiromasa Iwata, Minako Naito, Eiko Yasui, Masaaki Miyashita, Shinji Nagumo Synthesis of 26-Membered Lactone Moiety in Arenicolide A P101 Jyunpei Tsuda, Eiko Yasui, Shinji Nagumo Synthesis of 1,2-Benzodiazepine Derivatives from Hydrazones derived from a-Diazoesters P102 Masahiro Ozawa, Daisuke Katsumi, Eiko Yasui, Shinji Nagumo Synthetic Study of Sekothrixide P103 Yuuki Sakata, Eiko Yasui, Shinji Nagumo Novel Tandem Cyclization Utilizing Acetylene Cobalt Complex P104 Youhei Kamijyo, Sho Sunagawa, Eiko Yasui, Shinji Nagumo Synthetic study of Arenicolide C P105 Masako Ishida, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito Studies toward Asymmetric Synthesis of Clavubicyclone P106 Iori Takizawa, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito		using ethanol
P095 Yi-Chun Du, Shi-Han Chen, Cheng-Bang Shih, Ming-Jui Wu COMBINING PHYSIOLOGICAL AND DIALYSIS DATA TO MONITOR MULTI- BED PATIENTS DURING HEMODIALYSIS P096 Yi-Chun Du, Ying-Yi Hsu, Cheng-Chang Yen DESIGN A HEADGEAR USING DICOM IMAGE FOR POSITIONING OF DEEP PENETRATING ELECTROMAGNETIC STIMULATION P097 Tomohiro Watanabe, Tomoko Hashimoto, Osamu Ohno, Kazuyuki Furuta, Satoshi Tanaka, Kenji Matsuno Synthetic studies on GPR35 agonist without specific difference P098 Hayato Yoshioka, Kazuo Yamaguchi, Motoyasu Kobayashi Effect of Fluoroalcohol on Atom Transfer Radical Polymerization of Styrene Derivatives P099 Shin-ichiro Tanaka, Motoyasu Kobayashi Measurement of Molecular Interaction Forces of Biocompatible Poly(sulfobetaine) Brushes In Water P100 Hiromasa Iwata, Minako Naito, Eiko Yasui, Masaaki Miyashita, Shinji Nagumo Synthesis of 26-Membered Lactone Moiety in Arenicolide A P101 Jyunpei Tsuda, Eiko Yasui, Shinji Nagumo Synthesis of 1,2-Benzodiazepine Derivatives from Hydrazones derived from α-Diazoesters P102 Masahiro Ozawa, Daisuke Katsumi, Eiko Yasui, Shinji Nagumo Synthetic Study of Sekothrixide P103 Yuuki Sakata, Eiko Yasui, Shinji Nagumo Novel Tandem Cyclization Utilizing Acetylene Cobalt Complex P104 Youhei Kamijyo, Sho Sunagawa, Eiko Yasui, Shinji Nagumo Synthetic study of Arenicolide C P105 Masako Ishida, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito Studies toward Asymmetric Synthesis of Clavubicyclone P106 Iori Takizawa, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito	P094	Quoc Thien Pham, Hung-Ta Wang, Ming-Shing Tien, Nai-Shang Liou
COMBINING PHYSIOLOGICAL AND DIALYSIS DATA TO MONITOR MULTIBED PATIENTS DURING HEMODIALYSIS P096 Yi-Chun Du, Ying-Yi Hsu, Cheng-Chang Yen DESIGN A HEADGEAR USING DICOM IMAGE FOR POSITIONING OF DEEP PENETRATING ELECTROMAGNETIC STIMULATION P097 Tomohiro Watanabe, Tomoko Hashimoto, Osamu Ohno, Kazuyuki Furuta, Satoshi Tanaka, Kenji Matsuno Synthetic studies on GPR35 agonist without specific difference P098 Hayato Yoshioka, Kazuo Yamaguchi, Motoyasu Kobayashi Effect of Fluoroalcohol on Atom Transfer Radical Polymerization of Styrene Derivatives P099 Shin-ichiro Tanaka, Motoyasu Kobayashi Measurement of Molecular Interaction Forces of Biocompatible Poly(sulfobetaine) Brushes In Water P100 Hiromasa Iwata, Minako Naito, Eiko Yasui, Masaaki Miyashita, Shinji Nagumo Synthesis of 26-Membered Lactone Moiety in Arenicolide A P101 Jyunpei Tsuda, Eiko Yasui, Shinji Nagumo Synthesis of 1,2-Benzodiazepine Derivatives from Hydrazones derived from a-Diazoesters P102 Masahiro Ozawa, Daisuke Katsumi, Eiko Yasui, Shinji Nagumo Synthetic Study of Sekothrixide P103 Yuuki Sakata, Eiko Yasui, Shinji Nagumo Novel Tandem Cyclization Utilizing Acetylene Cobalt Complex P104 Youhei Kamijyo, Sho Sunagawa, Eiko Yasui, Shinji Nagumo Synthetic study of Arenicolide C P105 Masako Ishida, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito Studies toward Asymmetric Synthesis of Clavubicyclone		Measuring Mechanical Properties of Pear Flesh under Impact Load
P096 Yi-Chun Du, Ying-Yi Hsu, Cheng-Chang Yen DESIGN A HEADGEAR USING DICOM IMAGE FOR POSITIONING OF DEEP PENETRATING ELECTROMAGNETIC STIMULATION P097 Tomohiro Watanabe, Tomoko Hashimoto, Osamu Ohno, Kazuyuki Furuta, Satoshi Tanaka, Kenji Matsuno Synthetic studies on GPR35 agonist without specific difference P098 Hayato Yoshioka, Kazuo Yamaguchi, Motoyasu Kobayashi Effect of Fluoroalcohol on Atom Transfer Radical Polymerization of Styrene Derivatives P099 Shin-ichiro Tanaka, Motoyasu Kobayashi Measurement of Molecular Interaction Forces of Biocompatible Poly(sulfobetaine) Brushes In Water P100 Hiromasa Iwata, Minako Naito, Eiko Yasui, Masaaki Miyashita, Shinji Nagumo Synthesis of 26-Membered Lactone Moiety in Arenicolide A P101 Jyunpei Tsuda, Eiko Yasui, Shinji Nagumo Synthesis of 1,2-Benzodiazepine Derivatives from Hydrazones derived from o-Diazoesters P102 Masahiro Ozawa, Daisuke Katsumi, Eiko Yasui, Shinji Nagumo Synthetic Study of Sekothrixide P103 Yuuki Sakata, Eiko Yasui, Shinji Nagumo Novel Tandem Cyclization Utilizing Acetylene Cobalt Complex P104 Youhei Kamijyo, Sho Sunagawa, Eiko Yasui, Shinji Nagumo Synthetic study of Arenicolide C P105 Masako Ishida, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito Studies toward Asymmetric Synthesis of Clavubicyclone P106 Iori Takizawa, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito	P095	Yi-Chun Du, Shi-Han Chen, Cheng-Bang Shih, Ming-Jui Wu
P096 Yi-Chun Du, Ying-Yi Hsu, Cheng-Chang Yen DESIGN A HEADGEAR USING DICOM IMAGE FOR POSITIONING OF DEEP PENETRATING ELECTROMAGNETIC STIMULATION Tomohiro Watanabe, Tomoko Hashimoto, Osamu Ohno, Kazuyuki Furuta, Satoshi Tanaka, Kenji Matsuno Synthetic studies on GPR35 agonist without specific difference P098 Hayato Yoshioka, Kazuo Yamaguchi, Motoyasu Kobayashi Effect of Fluoroalcohol on Atom Transfer Radical Polymerization of Styrene Derivatives P099 Shin-ichiro Tanaka, Motoyasu Kobayashi Measurement of Molecular Interaction Forces of Biocompatible Poly(sulfobetaine) Brushes In Water P100 Hiromasa Iwata, Minako Naito, Eiko Yasui, Masaaki Miyashita, Shinji Nagumo Synthesis of 26-Membered Lactone Moiety in Arenicolide A P101 Jyunpei Tsuda, Eiko Yasui, Shinji Nagumo Synthesis of 1,2-Benzodiazepine Derivatives from Hydrazones derived from a-Diazoesters P102 Masahiro Ozawa, Daisuke Katsumi, Eiko Yasui, Shinji Nagumo Synthetic Study of Sekothrixide P103 Yuuki Sakata, Eiko Yasui, Shinji Nagumo Novel Tandem Cyclization Utilizing Acetylene Cobalt Complex P104 Youhei Kamijyo, Sho Sunagawa, Eiko Yasui, Shinji Nagumo Synthetic study of Arenicolide C P105 Masako Ishida, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito Studies toward Asymmetric Synthesis of Clavubicyclone P106 Iori Takizawa, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito		COMBINING PHYSIOLOGICAL AND DIALYSIS DATA TO MONITOR MULTI-
DESIGN A HEADGEAR USING DICOM IMAGE FOR POSITIONING OF DEEP PENETRATING ELECTROMAGNETIC STIMULATION P097 Tomohiro Watanabe, Tomoko Hashimoto, Osamu Ohno, Kazuyuki Furuta, Satoshi Tanaka, Kenji Matsuno Synthetic studies on GPR35 agonist without specific difference P098 Hayato Yoshioka, Kazuo Yamaguchi, Motoyasu Kobayashi Effect of Fluoroalcohol on Atom Transfer Radical Polymerization of Styrene Derivatives P099 Shin-ichiro Tanaka, Motoyasu Kobayashi Measurement of Molecular Interaction Forces of Biocompatible Poly(sulfobetaine) Brushes In Water P100 Hiromasa Iwata, Minako Naito, Eiko Yasui, Masaaki Miyashita, Shinji Nagumo Synthesis of 26-Membered Lactone Moiety in Arenicolide A P101 Jyunpei Tsuda, Eiko Yasui, Shinji Nagumo Synthesis of 1,2-Benzodiazepine Derivatives from Hydrazones derived from q-Diazoesters P102 Masahiro Ozawa, Daisuke Katsumi, Eiko Yasui, Shinji Nagumo Synthetic Study of Sekothrixide P103 Yuuki Sakata, Eiko Yasui, Shinji Nagumo Novel Tandem Cyclization Utilizing Acetylene Cobalt Complex P104 Youhei Kamijyo, Sho Sunagawa, Eiko Yasui, Shinji Nagumo Synthetic study of Arenicolide C P105 Masako Ishida, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito Studies toward Asymmetric Synthesis of Clavubicyclone		BED PATIENTS DURING HEMODIALYSIS
PENETRATING ELECTROMAGNETIC STIMULATION Tomohiro Watanabe, Tomoko Hashimoto, Osamu Ohno, Kazuyuki Furuta, Satoshi Tanaka, Kenji Matsuno Synthetic studies on GPR35 agonist without specific difference P098 Hayato Yoshioka, Kazuo Yamaguchi, Motoyasu Kobayashi Effect of Fluoroalcohol on Atom Transfer Radical Polymerization of Styrene Derivatives P099 Shin-ichiro Tanaka, Motoyasu Kobayashi Measurement of Molecular Interaction Forces of Biocompatible Poly(sulfobetaine) Brushes In Water P100 Hiromasa Iwata, Minako Naito, Eiko Yasui, Masaaki Miyashita, Shinji Nagumo Synthesis of 26-Membered Lactone Moiety in Arenicolide A P101 Jyunpei Tsuda, Eiko Yasui, Shinji Nagumo Synthesis of 1,2-Benzodiazepine Derivatives from Hydrazones derived from a-Diazoesters P102 Masahiro Ozawa, Daisuke Katsumi, Eiko Yasui, Shinji Nagumo Synthetic Study of Sekothrixide P103 Yuuki Sakata, Eiko Yasui, Shinji Nagumo Novel Tandem Cyclization Utilizing Acetylene Cobalt Complex P104 Youhei Kamijyo, Sho Sunagawa, Eiko Yasui, Shinji Nagumo Synthetic study of Arenicolide C P105 Masako Ishida, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito Studies toward Asymmetric Synthesis of Clavubicyclone	P096	Yi-Chun Du, Ying-Yi Hsu, Cheng-Chang Yen
P097 Tomohiro Watanabe, Tomoko Hashimoto, Osamu Ohno, Kazuyuki Furuta, Satoshi Tanaka, Kenji Matsuno Synthetic studies on GPR35 agonist without specific difference P098 Hayato Yoshioka, Kazuo Yamaguchi, Motoyasu Kobayashi Effect of Fluoroalcohol on Atom Transfer Radical Polymerization of Styrene Derivatives P099 Shin-ichiro Tanaka, Motoyasu Kobayashi Measurement of Molecular Interaction Forces of Biocompatible Poly(sulfobetaine) Brushes In Water P100 Hiromasa Iwata, Minako Naito, Eiko Yasui, Masaaki Miyashita, Shinji Nagumo Synthesis of 26-Membered Lactone Moiety in Arenicolide A P101 Jyunpei Tsuda, Eiko Yasui, Shinji Nagumo Synthesis of 1,2-Benzodiazepine Derivatives from Hydrazones derived from q-Diazoesters P102 Masahiro Ozawa, Daisuke Katsumi, Eiko Yasui, Shinji Nagumo Synthetic Study of Sekothrixide P103 Yuuki Sakata, Eiko Yasui, Shinji Nagumo Novel Tandem Cyclization Utilizing Acetylene Cobalt Complex P104 Youhei Kamijyo, Sho Sunagawa, Eiko Yasui, Shinji Nagumo Synthetic study of Arenicolide C P105 Masako Ishida, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito Studies toward Asymmetric Synthesis of Clavubicyclone		DESIGN A HEADGEAR USING DICOM IMAGE FOR POSITIONING OF DEEP
Furuta, Satoshi Tanaka, Kenji Matsuno Synthetic studies on GPR35 agonist without specific difference P098 Hayato Yoshioka, Kazuo Yamaguchi, Motoyasu Kobayashi Effect of Fluoroalcohol on Atom Transfer Radical Polymerization of Styrene Derivatives P099 Shin-ichiro Tanaka, Motoyasu Kobayashi Measurement of Molecular Interaction Forces of Biocompatible Poly(sulfobetaine) Brushes In Water P100 Hiromasa Iwata, Minako Naito, Eiko Yasui, Masaaki Miyashita, Shinji Nagumo Synthesis of 26-Membered Lactone Moiety in Arenicolide A P101 Jyunpei Tsuda, Eiko Yasui, Shinji Nagumo Synthesis of 1,2-Benzodiazepine Derivatives from Hydrazones derived from q-Diazoesters P102 Masahiro Ozawa, Daisuke Katsumi, Eiko Yasui, Shinji Nagumo Synthetic Study of Sekothrixide P103 Yuuki Sakata, Eiko Yasui, Shinji Nagumo Novel Tandem Cyclization Utilizing Acetylene Cobalt Complex P104 Youhei Kamijyo, Sho Sunagawa, Eiko Yasui, Shinji Nagumo Synthetic study of Arenicolide C P105 Masako Ishida, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito Studies toward Asymmetric Synthesis of Clavubicyclone P106 Iori Takizawa, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito		PENETRATING ELECTROMAGNETIC STIMULATION
Synthetic studies on GPR35 agonist without specific difference P098 Hayato Yoshioka, Kazuo Yamaguchi, Motoyasu Kobayashi Effect of Fluoroalcohol on Atom Transfer Radical Polymerization of Styrene Derivatives P099 Shin-ichiro Tanaka, Motoyasu Kobayashi Measurement of Molecular Interaction Forces of Biocompatible Poly(sulfobetaine) Brushes In Water P100 Hiromasa Iwata, Minako Naito, Eiko Yasui, Masaaki Miyashita, Shinji Nagumo Synthesis of 26-Membered Lactone Moiety in Arenicolide A P101 Jyunpei Tsuda, Eiko Yasui, Shinji Nagumo Synthesis of 1,2-Benzodiazepine Derivatives from Hydrazones derived from a-Diazoesters P102 Masahiro Ozawa, Daisuke Katsumi, Eiko Yasui, Shinji Nagumo Synthetic Study of Sekothrixide P103 Yuuki Sakata, Eiko Yasui, Shinji Nagumo Novel Tandem Cyclization Utilizing Acetylene Cobalt Complex P104 Youhei Kamijyo, Sho Sunagawa, Eiko Yasui, Shinji Nagumo Synthetic study of Arenicolide C P105 Masako Ishida, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito Studies toward Asymmetric Synthesis of Clavubicyclone P106 Iori Takizawa, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito	P097	Tomohiro Watanabe, Tomoko Hashimoto, Osamu Ohno, Kazuyuki
P098 Hayato Yoshioka, Kazuo Yamaguchi, Motoyasu Kobayashi Effect of Fluoroalcohol on Atom Transfer Radical Polymerization of Styrene Derivatives P099 Shin-ichiro Tanaka, Motoyasu Kobayashi Measurement of Molecular Interaction Forces of Biocompatible Poly(sulfobetaine) Brushes In Water P100 Hiromasa Iwata, Minako Naito, Eiko Yasui, Masaaki Miyashita, Shinji Nagumo Synthesis of 26-Membered Lactone Moiety in Arenicolide A P101 Jyunpei Tsuda, Eiko Yasui, Shinji Nagumo Synthesis of 1,2-Benzodiazepine Derivatives from Hydrazones derived from a-Diazoesters P102 Masahiro Ozawa, Daisuke Katsumi, Eiko Yasui, Shinji Nagumo Synthetic Study of Sekothrixide P103 Yuuki Sakata, Eiko Yasui, Shinji Nagumo Novel Tandem Cyclization Utilizing Acetylene Cobalt Complex P104 Youhei Kamijyo, Sho Sunagawa, Eiko Yasui, Shinji Nagumo Synthetic study of Arenicolide C P105 Masako Ishida, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito Studies toward Asymmetric Synthesis of Clavubicyclone P106 Iori Takizawa, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito		Furuta, Satoshi Tanaka, Kenji Matsuno
Effect of Fluoroalcohol on Atom Transfer Radical Polymerization of Styrene Derivatives P099 Shin-ichiro Tanaka, Motoyasu Kobayashi Measurement of Molecular Interaction Forces of Biocompatible Poly(sulfobetaine) Brushes In Water P100 Hiromasa Iwata, Minako Naito, Eiko Yasui, Masaaki Miyashita, Shinji Nagumo Synthesis of 26-Membered Lactone Moiety in Arenicolide A P101 Jyunpei Tsuda, Eiko Yasui, Shinji Nagumo Synthesis of 1,2-Benzodiazepine Derivatives from Hydrazones derived from q-Diazoesters P102 Masahiro Ozawa, Daisuke Katsumi, Eiko Yasui, Shinji Nagumo Synthetic Study of Sekothrixide P103 Yuuki Sakata, Eiko Yasui, Shinji Nagumo Novel Tandem Cyclization Utilizing Acetylene Cobalt Complex P104 Youhei Kamijyo, Sho Sunagawa, Eiko Yasui, Shinji Nagumo Synthetic study of Arenicolide C P105 Masako Ishida, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito Studies toward Asymmetric Synthesis of Clavubicyclone P106 Iori Takizawa, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito		Synthetic studies on GPR35 agonist without specific difference
Styrene Derivatives P099 Shin-ichiro Tanaka, Motoyasu Kobayashi Measurement of Molecular Interaction Forces of Biocompatible Poly(sulfobetaine) Brushes In Water P100 Hiromasa Iwata, Minako Naito, Eiko Yasui, Masaaki Miyashita, Shinji Nagumo Synthesis of 26-Membered Lactone Moiety in Arenicolide A P101 Jyunpei Tsuda, Eiko Yasui, Shinji Nagumo Synthesis of 1,2-Benzodiazepine Derivatives from Hydrazones derived from a-Diazoesters P102 Masahiro Ozawa, Daisuke Katsumi, Eiko Yasui, Shinji Nagumo Synthetic Study of Sekothrixide P103 Yuuki Sakata, Eiko Yasui, Shinji Nagumo Novel Tandem Cyclization Utilizing Acetylene Cobalt Complex P104 Youhei Kamijyo, Sho Sunagawa, Eiko Yasui, Shinji Nagumo Synthetic study of Arenicolide C P105 Masako Ishida, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito Studies toward Asymmetric Synthesis of Clavubicyclone P106 Iori Takizawa, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito	P098	Hayato Yoshioka, Kazuo Yamaguchi, Motoyasu Kobayashi
P099 Shin-ichiro Tanaka, Motoyasu Kobayashi Measurement of Molecular Interaction Forces of Biocompatible Poly(sulfobetaine) Brushes In Water P100 Hiromasa Iwata, Minako Naito, Eiko Yasui, Masaaki Miyashita, Shinji Nagumo Synthesis of 26-Membered Lactone Moiety in Arenicolide A P101 Jyunpei Tsuda, Eiko Yasui, Shinji Nagumo Synthesis of 1,2-Benzodiazepine Derivatives from Hydrazones derived from a-Diazoesters P102 Masahiro Ozawa, Daisuke Katsumi, Eiko Yasui, Shinji Nagumo Synthetic Study of Sekothrixide P103 Yuuki Sakata, Eiko Yasui, Shinji Nagumo Novel Tandem Cyclization Utilizing Acetylene Cobalt Complex P104 Youhei Kamijyo, Sho Sunagawa, Eiko Yasui, Shinji Nagumo Synthetic study of Arenicolide C P105 Masako Ishida, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito Studies toward Asymmetric Synthesis of Clavubicyclone P106 Iori Takizawa, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito		Effect of Fluoroalcohol on Atom Transfer Radical Polymerization of
Measurement of Molecular Interaction Forces of Biocompatible Poly(sulfobetaine) Brushes In Water P100 Hiromasa Iwata, Minako Naito, Eiko Yasui, Masaaki Miyashita, Shinji Nagumo Synthesis of 26-Membered Lactone Moiety in Arenicolide A P101 Jyunpei Tsuda, Eiko Yasui, Shinji Nagumo Synthesis of 1,2-Benzodiazepine Derivatives from Hydrazones derived from α-Diazoesters P102 Masahiro Ozawa, Daisuke Katsumi, Eiko Yasui, Shinji Nagumo Synthetic Study of Sekothrixide P103 Yuuki Sakata, Eiko Yasui, Shinji Nagumo Novel Tandem Cyclization Utilizing Acetylene Cobalt Complex P104 Youhei Kamijyo, Sho Sunagawa, Eiko Yasui, Shinji Nagumo Synthetic study of Arenicolide C P105 Masako Ishida, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito Studies toward Asymmetric Synthesis of Clavubicyclone P106 Iori Takizawa, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito		Styrene Derivatives
Poly(sulfobetaine) Brushes In Water P100 Hiromasa Iwata, Minako Naito, Eiko Yasui, Masaaki Miyashita, Shinji Nagumo Synthesis of 26-Membered Lactone Moiety in Arenicolide A P101 Jyunpei Tsuda, Eiko Yasui, Shinji Nagumo Synthesis of 1,2-Benzodiazepine Derivatives from Hydrazones derived from a-Diazoesters P102 Masahiro Ozawa, Daisuke Katsumi, Eiko Yasui, Shinji Nagumo Synthetic Study of Sekothrixide P103 Yuuki Sakata, Eiko Yasui, Shinji Nagumo Novel Tandem Cyclization Utilizing Acetylene Cobalt Complex P104 Youhei Kamijyo, Sho Sunagawa, Eiko Yasui, Shinji Nagumo Synthetic study of Arenicolide C P105 Masako Ishida, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito Studies toward Asymmetric Synthesis of Clavubicyclone P106 Iori Takizawa, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito	P099	Shin-ichiro Tanaka, Motoyasu Kobayashi
P100 Hiromasa Iwata, Minako Naito, Eiko Yasui, Masaaki Miyashita, Shinji Nagumo Synthesis of 26-Membered Lactone Moiety in Arenicolide A P101 Jyunpei Tsuda, Eiko Yasui, Shinji Nagumo Synthesis of 1,2-Benzodiazepine Derivatives from Hydrazones derived from q-Diazoesters P102 Masahiro Ozawa, Daisuke Katsumi, Eiko Yasui, Shinji Nagumo Synthetic Study of Sekothrixide P103 Yuuki Sakata, Eiko Yasui, Shinji Nagumo Novel Tandem Cyclization Utilizing Acetylene Cobalt Complex P104 Youhei Kamijyo, Sho Sunagawa, Eiko Yasui, Shinji Nagumo Synthetic study of Arenicolide C P105 Masako Ishida, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito Studies toward Asymmetric Synthesis of Clavubicyclone P106 Iori Takizawa, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito		Measurement of Molecular Interaction Forces of Biocompatible
Nagumo Synthesis of 26-Membered Lactone Moiety in Arenicolide A P101 Jyunpei Tsuda, Eiko Yasui, Shinji Nagumo Synthesis of 1,2-Benzodiazepine Derivatives from Hydrazones derived from a-Diazoesters P102 Masahiro Ozawa, Daisuke Katsumi, Eiko Yasui, Shinji Nagumo Synthetic Study of Sekothrixide P103 Yuuki Sakata, Eiko Yasui, Shinji Nagumo Novel Tandem Cyclization Utilizing Acetylene Cobalt Complex P104 Youhei Kamijyo, Sho Sunagawa, Eiko Yasui, Shinji Nagumo Synthetic study of Arenicolide C P105 Masako Ishida, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito Studies toward Asymmetric Synthesis of Clavubicyclone P106 Iori Takizawa, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito		Poly(sulfobetaine) Brushes In Water
Synthesis of 26-Membered Lactone Moiety in Arenicolide A P101 Jyunpei Tsuda, Eiko Yasui, Shinji Nagumo Synthesis of 1,2-Benzodiazepine Derivatives from Hydrazones derived from a-Diazoesters P102 Masahiro Ozawa, Daisuke Katsumi, Eiko Yasui, Shinji Nagumo Synthetic Study of Sekothrixide P103 Yuuki Sakata, Eiko Yasui, Shinji Nagumo Novel Tandem Cyclization Utilizing Acetylene Cobalt Complex P104 Youhei Kamijyo, Sho Sunagawa, Eiko Yasui, Shinji Nagumo Synthetic study of Arenicolide C P105 Masako Ishida, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito Studies toward Asymmetric Synthesis of Clavubicyclone P106 Iori Takizawa, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito	P100	Hiromasa Iwata, Minako Naito, Eiko Yasui, Masaaki Miyashita, Shinji
P101 Jyunpei Tsuda, Eiko Yasui, Shinji Nagumo Synthesis of 1,2-Benzodiazepine Derivatives from Hydrazones derived from q-Diazoesters P102 Masahiro Ozawa, Daisuke Katsumi, Eiko Yasui, Shinji Nagumo Synthetic Study of Sekothrixide P103 Yuuki Sakata, Eiko Yasui, Shinji Nagumo Novel Tandem Cyclization Utilizing Acetylene Cobalt Complex P104 Youhei Kamijyo, Sho Sunagawa, Eiko Yasui, Shinji Nagumo Synthetic study of Arenicolide C P105 Masako Ishida, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito Studies toward Asymmetric Synthesis of Clavubicyclone P106 Iori Takizawa, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito		Nagumo
Synthesis of 1,2-Benzodiazepine Derivatives from Hydrazones derived from a-Diazoesters P102 Masahiro Ozawa, Daisuke Katsumi, Eiko Yasui, Shinji Nagumo Synthetic Study of Sekothrixide P103 Yuuki Sakata, Eiko Yasui, Shinji Nagumo Novel Tandem Cyclization Utilizing Acetylene Cobalt Complex P104 Youhei Kamijyo, Sho Sunagawa, Eiko Yasui, Shinji Nagumo Synthetic study of Arenicolide C P105 Masako Ishida, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito Studies toward Asymmetric Synthesis of Clavubicyclone P106 Iori Takizawa, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito		Synthesis of 26-Membered Lactone Moiety in Arenicolide A
from a-Diazoesters P102 Masahiro Ozawa, Daisuke Katsumi, Eiko Yasui, Shinji Nagumo Synthetic Study of Sekothrixide P103 Yuuki Sakata, Eiko Yasui, Shinji Nagumo Novel Tandem Cyclization Utilizing Acetylene Cobalt Complex P104 Youhei Kamijyo, Sho Sunagawa, Eiko Yasui, Shinji Nagumo Synthetic study of Arenicolide C P105 Masako Ishida, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito Studies toward Asymmetric Synthesis of Clavubicyclone P106 Iori Takizawa, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito	P101	Jyunpei Tsuda, Eiko Yasui, Shinji Nagumo
P102 Masahiro Ozawa, Daisuke Katsumi, Eiko Yasui, Shinji Nagumo Synthetic Study of Sekothrixide P103 Yuuki Sakata, Eiko Yasui, Shinji Nagumo Novel Tandem Cyclization Utilizing Acetylene Cobalt Complex P104 Youhei Kamijyo, Sho Sunagawa, Eiko Yasui, Shinji Nagumo Synthetic study of Arenicolide C P105 Masako Ishida, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito Studies toward Asymmetric Synthesis of Clavubicyclone P106 Iori Takizawa, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito		Synthesis of 1,2-Benzodiazepine Derivatives from Hydrazones derived
Synthetic Study of Sekothrixide P103 Yuuki Sakata, Eiko Yasui, Shinji Nagumo Novel Tandem Cyclization Utilizing Acetylene Cobalt Complex P104 Youhei Kamijyo, Sho Sunagawa, Eiko Yasui, Shinji Nagumo Synthetic study of Arenicolide C P105 Masako Ishida, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito Studies toward Asymmetric Synthesis of Clavubicyclone P106 Iori Takizawa, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito		from a-Diazoesters
P103 Yuuki Sakata, Eiko Yasui, Shinji Nagumo Novel Tandem Cyclization Utilizing Acetylene Cobalt Complex P104 Youhei Kamijyo, Sho Sunagawa, Eiko Yasui, Shinji Nagumo Synthetic study of Arenicolide C P105 Masako Ishida, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito Studies toward Asymmetric Synthesis of Clavubicyclone P106 Iori Takizawa, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito	P102	Masahiro Ozawa, Daisuke Katsumi, Eiko Yasui, Shinji Nagumo
Novel Tandem Cyclization Utilizing Acetylene Cobalt Complex P104 Youhei Kamijyo, Sho Sunagawa, Eiko Yasui, Shinji Nagumo Synthetic study of Arenicolide C P105 Masako Ishida, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito Studies toward Asymmetric Synthesis of Clavubicyclone P106 Iori Takizawa, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito		Synthetic Study of Sekothrixide
P104 Youhei Kamijyo, Sho Sunagawa, Eiko Yasui, Shinji Nagumo Synthetic study of Arenicolide C P105 Masako Ishida, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito Studies toward Asymmetric Synthesis of Clavubicyclone P106 Iori Takizawa, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito	P103	Yuuki Sakata, Eiko Yasui, Shinji Nagumo
Synthetic study of Arenicolide C P105 Masako Ishida, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito Studies toward Asymmetric Synthesis of Clavubicyclone P106 Iori Takizawa, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito		Novel Tandem Cyclization Utilizing Acetylene Cobalt Complex
P105 Masako Ishida, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito Studies toward Asymmetric Synthesis of Clavubicyclone P106 Iori Takizawa, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito	P104	Youhei Kamijyo, Sho Sunagawa, Eiko Yasui, Shinji Nagumo
Studies toward Asymmetric Synthesis of Clavubicyclone P106 Iori Takizawa, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito		Synthetic study of Arenicolide C
P106 Iori Takizawa, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito	P105	Masako Ishida, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito
		Studies toward Asymmetric Synthesis of Clavubicyclone
Asymmetric Total Synthesis and Structure Revision of Guignardones	P106	Iori Takizawa, Toyoharu Kobayashi, Hideki Abe, Hisanaka Ito
		Asymmetric Total Synthesis and Structure Revision of Guignardones

The 16th International Symposium on Advanced Technology (ISAT-16)

2407	T 1 1/1 1: 1/1 1: 1/1 1: 1 T
P107	Toyoharu Kobayashi, Kotono Yamanoue, Hideki Abe, Hisanaka Ito
	Synthetic Study of Antitumor Diterpenoid Amijiols
P108	Masato Hanai, Saneyasu Yamaguchi, Aki Kobayashi
	Improving TCP Fairness with Large Dropping Probability in Modified CoDel
P109	Sho Uesugi, Hidetoshi Saito, Fumiko Akagi
	A Study on Partial Response Equalization Systems for Heat Assisted
	Magnetic Recording
P110	Masaya Ishikawa, Fumiko Akagi
	Relation Between High-Frequency AC Field and Heat Generated by Eddy
	Current
P111	Kento Kimura, Hidetoshi Saito
	A Study of the Relationship between Time Encoding/Decoding
	Complexities and Compression Ratios for Typical Universal Source Coding
	Algorithms
P112	Shinichi YONEZAWA, Hidetoshi SAITO
	A Method of Selecting Frozen Bits for Belief Propagation Decoding of Polar
	Codes
P113	Norihiro Naganuma, Kai Osawa, Hiroyuki Otsuka
	Throughput Performance of Adaptive Control CRE Based on UE
	Connection Ratio in HetNet Incorporating eICIC
P114	Ryota Nakao, Hiroyuki Otsuka
	Throughput Improvement by 3D Beamforming applied for a Backhaul
	Link in Time-Division Relaying
P115	Kai Osawa, Norihiro Naganuma, Hiroyuki Otsuka
	Throughput Performance of 256-QAM in Small Cell Environments
P116	Tomoki Ota, Hiroyuki Otsuka
	Performance Evaluation of OFDM-based 256- and 1024-QAM with Turbo
	Coding
P117	Ruxiao Tian, Tomoki Ota, Hiroyuki Otsuka
	OFDM-based 4096-QAM Transmission in Mobile Systems
P118	Hiroki Utatsu, Ryota Nakao, Hiroyuki Otsuka
	Fiber-optic Inband relaying against both Self- and Inter-cell Interference
P119	Koki Senda, Tomoki Ota, Hiroyuki Otsuka
	Superposed Modulation in Downlink NOMA
-	•

The 16th International Symposium on Advanced Technology (ISAT-16)

P120	Tetsushi Minami, Kanta Tachibana
	A Study on Observation Model of PHD Filter for Estimating Behavior of
	Bus Passenger
P121	Daiki Suzuki, Ken-ichi Baba
	A Path Selection Method Passing Around Highly Loaded Nodes
	Considering Network Topology
P122	Shota UCHIYAMA, Osamu MIZUNO
	A Study of Area Generalization for the Mitigation Information Providing
	System
P123	Kandai Mochizuki, Masafumi Koike, Osamu Mizuno
	The Data Cache Method applied for Data ID with Wild Card in
	Information-Centric Networking-based Wireless Sensor Network
P124	Yuki Morimitsu, Saneyasu Yamaguchi, Osamu Mizuno
	A STUDY ON REDUCTION OF NODE JOINING TIME BY CONTROLLING
	EXPIRETIMES
P125	Joichiro Kon, Kenji Nakashima, Saneyasu Yamaguchi
	A Large Block Filesystem for Improving I/O Performance of Secure Data
	Sharing and Distribution Platform
P126	Kenji Nakashima, Joichiro Kon, Saneyasu Yamaguchi
	I/O Performance Improvement on Modern Storage
P127	Yuto Tachibana, Joichiro Kon, Saneyasu Yamaguchi
	A Performance Survey of Web Applications in a Highly Consolidated
	Server with Container-based Virtualization for Each HTTP Request
P128	Naoki Oda, Saneyasu Yamaguchi
	HTTP/2 Performance Improvement with High Latency and High Packet
	Loss Ratio Considering CUBIC TCP
P129	Yusuke Sato, Shun Kurihara, Saneyasu Yamaguchi, Shoki Fukuda,
	Masato Oguchi
	Estimating Height based on Data of Acceleration Sensors in Smartphone
P130	Kotaro Yoshida, Saneyasu Yamaguchi
	A Caching Filesystem for Increasing Cache Hit Ratio in the Second Cache
	in a Virtualized Environment
P131	Shinnosuke Nirasawa, Masaki Hara, Akihiro Nakao, Masato Oguchi, Shu
	Yamamoto, Saneyasu Yamaguchi
	Application Switch: A Switch Supporting Application Function

The 16th International Symposium on Advanced Technology (ISAT-16)

P132	Masaki Hara, Shinnosuke Nirasawa, Akihiro Nakao, Masato Oguchi, Shu
	Yamamoto, Saneyasu Yamaguchi
	Evaluation of Service Identification Based on Multiple Connections
	Clustering
P133	Ryusuke Mori, Masato Oguchi, Saneyasu Yamaguchi
	A Study on Promotion Restriction on the Android GeneratioanI GC
P134	Tsubasa Murakami, Shun Kurihara, Shoki Fukuda, Masato Oguchi,
	Saneyasu Yamaguchi
	Saving Power Consumption of Smartphones in the Screen-off State with
	Communication Device Control
P135	Naoki Mizusawa, Joichiro Kon, Kenji Nakashima, Sanayasu Yamaguchi
	Performance of File Operations on Docker with OverlayFS
P136	Shunpei Hayakawa, Joichiro Kon, Kenji Nakashima, Saneyasu Yamaguchi
	File Storing Performance over Network on Object Storage
P137	Hiroaki Yamauchi, Masaki Hara, Shun Kurihara, Shinnosuke Nirasawa,
	Akihiro Nakao, Masato Oguchi, Shu Yamamoto, Saneyasu Yamaguchi
	A Study on Clustering Sessions of TLS based on Server Certification
P138	Shoki Fukuda, Shun Kurihara, Masato Oguchi, Saneyasu Yamaguchi
	Stability Improvement of a TM Android Operating System for Accelerated
	Application Observation
P139	Yu Kanezashi, Naoya Sakamura, Yukihiro Kudoh, Taiju Takahashi
	Evaluation of Transmittance and Haze Characteristics of a Flexible Light
	Scattering Liquid Crystal Device Using HPC Nano-fibers on the
	PEDOT/PSS Film
P140	Yusuke Saito, Ryuhei Ozawa, Yukihiro Kudoh, Taiju Takahashi
	Evaluation of Pretilt Angle and Polar Anchoring Strength on LC Alignment
	Film Treated by Atmospheric Pressure Plasma
P141	Hirotaka Yoshioka, Yukihiro Kudoh, Taiju Takahashi
	Pretilt Angles for Nematic LCs on Rubbed REDOT/PSS Films as an
	Alignment Layer
P142	Yuichi Onouchi, Yukihiro Kudoh, Taiju Takahashi
	Basic Consideration in the Application for E-papers Using an
	Electrowetting Phenomenon of Quasi-emulsion

The 16th International Symposium on Advanced Technology (ISAT-16)

P143	Ryusuke Suzuki, Yukihiro Kudoh, Taiju Takahashi Electro-optical Characteristics Depending on the Cell Thickness in
	Reversed Scattering Polymer Stabilized Mode Using Ferroelectric Liquid
	Crystal
P144	Ushio Suda, Takashi Kanamaru
	Development of a workbench system for job training based on behaviors
	of worker
P145	Motoi Shirai, Takatoshi Sugiyama
	PAPR Variations of Spectrum Suppressed Transmission for Resource
	Control
P146	Norifumi Murai, Takatoshi Sugiyama
	Distance Error Improvement by Relay Type GPS Using Many Mobile
	Terminals
P147	Masayoshi Mochizuki, Akihiro Fujii, Teruo Tanaka
	Evaluation of Four-dimensional Performance Parameter Search by
	Iterative One-dimensional d-spline Search
P148	Shigeo Kaneko, Hiroki Fujito, Akihiro Fujii, Teruo Tanaka, Takeshi
	Iwashita
	Comparison of Correction Methods in Parallelization in Time Direction
	—MGRIT and TSC—
P149	Takumi Matsugana, Osamu Mizuno, Bo Gu
	Power Control System for Household Electrical Appliances under Real-
	Time Pricing
P150	Wen-Shan Chen, Jia-Hong Shu
	CIRCULARLY POLARIZED SEQUENTIAL ROTATION ARRAY USING OPEN
	SLOT ELEMENTS FOR WLAN APPLICATIONS
P151	Bo-Yu Liao, Wen-Shan Chen
	2X2 STEP SLOT ARRAY ANTENNA FOR 5G SMALL CELL APPLICATIONS
P152	Fu-Liang Chang, Wei-Wen Hu
	A novel circuit for OOK-based visible light communication
P153	Nang Hung Van Nguyen, Minh Tuan Pham, Phuc Hao Do, Kanta
	Tachibana
	The fast Gaussian Distribution based AdaBoost Algorithm for Face
	Detection

The 16th International Symposium on Advanced Technology (ISAT-16)

P154	Liang-Bi Chen, Chia-Hao Hsu, Jian-Ping Su, Wan-Jung Chang, Wei-Wen
	Hu, Da-Huei Lee
	A Portable Wireless Scalp Inspector and its Automatic Diagnosis System
	based on Deep Learning Techniques
P155	Ding-Horng Chen, Tsai-Rong Chang, Yi-Hsuan Kao
	A Computer Vision based Screw Defects Detection System Using Support
	Vector Machine Algorithm
P156	Masaki Saegusa, Koyo Katsura
	Development of a Smart IoT Device for Bicyclists
P157	Kaname Yamada, Kiyotaka Tahara, Chiharu Fujii, Atsushi Inaba
	Organizational Life Cycle Assessment (OLCA) of Kogakuin University
P158	Hajime Iida, Yuki Osawa, Yuta Komatsu, Ai Hakuta, Jun Kobayashi, Kazu
	Okumura
	Effect of Support Material on Catalytic Performances of Supported Nickel
	Catalysts for Chemical Exhaust Heat Recovery in Spark Ignition Engines
P159	Makoto Sato, Taku Nonomura, Hikaru Aono
	Mechanism of separated-flow control around NACA4418 using vortex-
	generator type plasma actuator
P160	Yuki Nakamata, Ryo Takagi
	Relationship Between the Charge/Discharge Control Parameters and the
	Charge/Discharge Current of a Stationary Energy Storage System for DC
	Electric Railways
P161	Fumitaka Kakuhama, Ryo Takagi
	Possibility of Ultra-high Frequency Train Operation Using the Soft
	Coupling Technique
P162	Masahiro Inamoto, Takamichi Ishii, Hiroyuki Suzuki, Takashi Saika
	Development of a Hydrogen Generation System by Ammonia
	Decomposition
P163	Ryutaro Hanazaki, Naoya Fukuda, Masahiro Ando, Takashi Saika
	Research and development of the residual ammonia removing system for
	the in-vehicle
P164	Kei Ohmura, Yukio Nakajima
	Technology development of sponge tire for RC car
P165	Masumi Iwatsuka, Hiroki Toyoda, Yukio Nakajima
	Measurement of negative damping coefficient induced by fluid force of
	liquid inside of the rotor
L	1 -

The 16th International Symposium on Advanced Technology (ISAT-16)

P166	Vachivuki Ichiwata, Vukio Nakajima
P100	Yoshiyuki Ishiwata, Yukio Nakajima
	Development of the analytical wear model of tire and proposal of
	improved technology
P167	Takaaki Hiraga, Yukio Nakajima
	Study on improvement of water absorption effect in sipes of studless tire
P168	Cho-Yu Lee, Jui-Hung Chang, Chiu-Foug Lim, Shih-Wei Lee
	To Optimize Motorcycle Fuel Economy by Adopting Modelling and
	Experimented Study
P169	Tsong-Shing Lee, Zong-Han Yang, Sheng-Jie Lin, Yin-Han Zhang, Shao-
	En Huang, Te-Chun Hung
	Design and Improvement of Integrated Power Converter System with
	High Current Density Output Capability for Power Bank Applications
P170	Truc Thi Minh Huynh, Oanh Thi Kim Le, Duc Anh Pham
	Eco-efficiency analysis for highway projects in Vietnam
P171	Atsumi Hirose, Atsushi Kouzuma, Kazuya Watanabe
	Shewanella oneidensis MR-1, an electrochemically active bacteria; its
	fundamentals and applications
P172	Hisae Mogi, Atsushi Kouzuma, Kazuya Watanabe
	Methionine induces a signaling cascade that promotes current generation
	by Shewanella oneidensis MR-1
P173	Shohei Yamada, Koji Takizawa, Atsushi Kouzuma, Kazuya Watanabe
	Bioelectrochemical production of ammonia from atmospheric dinitrogen
P174	Kai Takagi, Fumio Okada
	Removal of Fe ²⁺ ions by micro-bubble air oxidation
P175	Ami Ishii, Naoki Kanauti, Norikazu Namiki, Ryoichi Nakayama, Hajime
	Tamura, Tomokatsu Sato
	Characterization of Removal of Particles Adhered on a Solid Surface by
	Pulsed-Air Jet Blowings
P176	Miyu Kimura, Satsuki Suzuki, Norikazu Namiki, Ryoichi Nakayama,
	Kazuhiko, Sekiguchi, Naoki Kagi
	Photocatalytic Degradation of VOCs Using TiO ₂ -Containing Droplets
	Generated by Ultrasonic Atomization Technique
P177	Lu Luo, Wei Guo, Lanlan Jin, Qin shuai, Shenghong Hu
	Accurate determination of trace iodine in 56 geological standard
	reference materials by ICP-MS with diluted ammonia extraction
L	

The 16th International Symposium on Advanced Technology (ISAT-16)

P178	Trung Quang Nguyen, Oanh Thi Kim Le, Duc Anh Pham
	An Investigation of Affecting Factors to Apply Green Spectifications in
	Construction through Case study of Danang City in Vietnam
P179	Chau Quynh Truong, Oanh Thi Kim Le, Duc Anh Pham
	A Cross-country Investigation of green building implementation and
	challenges for sustainable construction development in Vietnam
P180	Shu-Chen Cheng, Cheng-Yi Lin, Yu-Ping Cheng
	Calculating Similar Features to Improve the Accuracy of Plant Search
	System
P181	Shu-Chen Cheng, Yu-Ping Cheng
	Using Brainwave to Measure Learning Attention and Discussing Cognitive
	Load
P182	Pin-Chun Chao, Mei-Yi Shen, Wan-Chen Li
	Enrichment of biography via various storytelling methods for
	intergenerational learning
P183	Yoichi Negishi, Honoka Sawada, Yu Ishima, Ryo Suzuki, Kazuo
	Maruyama, Toru, Maruyama, Yoko Endo-Takahashi
	Development of Nitric Oxide Gas Encapsulating Liposomes