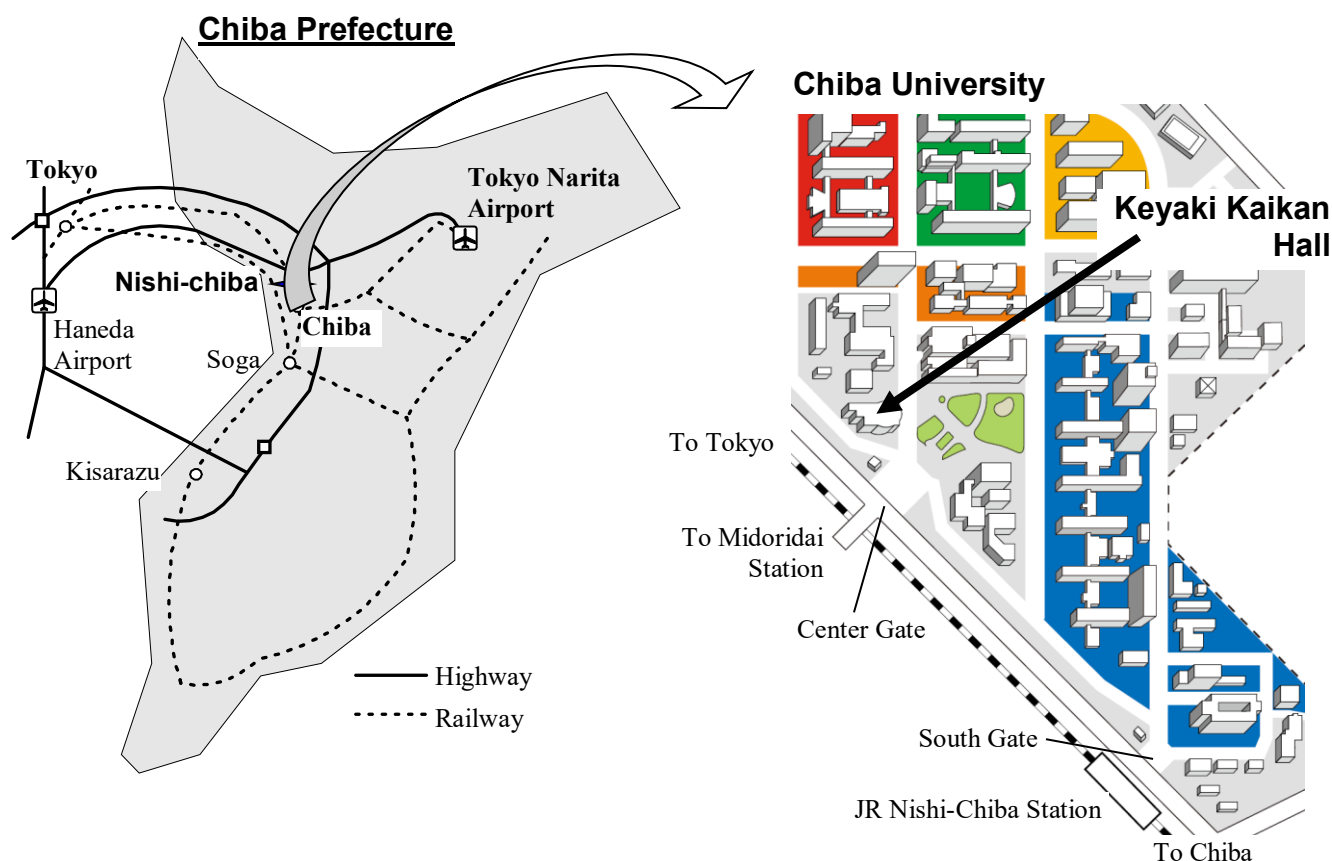


# The 22nd Symposium on the Society of Iodine Science

August 30, 2019

Keyaki Kaikan Hall in Chiba University, Chiba, Japan



SPONSORED by **SIS** The Society of Iodine Science

COSPONSOR : The Chemical Society of Japan

Japan Iodine Industry Association

Chiba University

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## *General Information*

The 22nd Symposium is organized under the Society of Iodine Science (**SIS**) and is co-sponsored by a number of Chemical Societies and Industries in Japan. Within the framework of the Symposium,

(a) Award lectures/Invited Lectures

(b) Poster Presentations, on original research and applications

(c) Banquet

will be involved.

I am Hirofumi Kanoh. It is my honor to be elected to the Chair of the Society of Iodine Science (SIS). I would like to extend my greetings to you on the occasion of this symposium.

Twenty years had passed last year since SIS was first established as the Forum of Iodine Utilization (FIU) in 1998. And also, the Chiba Iodine Resource Innovation Center (CIRIC) on the campus of Chiba University was founded in June last year, after the acceptance by the MEXT of the application for “Projects of Empirical Research Base for Regional Development” submitted by Chiba University and Chiba Prefecture in 2016. At CIRIC, Chiba University and four businesses concluded a comprehensive partnership agreement to promote open innovation in noncompetitive areas while maintaining a closed environment in competitive areas. CIRIC is most likely the only research facility in the world to be established primarily for the purpose of iodine research. We have high expectations that CIRIC should have a major impact on the field.

Since the establishment, SIS has been making a wide range of efforts to achieve steady progress in the development of iodine science and technology by continuing to conduct annual activities such as symposiums, research assistance, awards, and the publication of newsletters and journals.

SIS members involved in iodine science and technology, including researchers and businesses that are not part of the current comprehensive partnership agreement, can enjoy the fruits of open innovation. I believe that the active exchanges of information and diverse discussions held at this symposium are certain to contribute to further progress in the field of iodine.

As in previous years, the symposium features a dense lineup of invited lectures, general oral sessions, poster sessions, award lectures, and other presentations in a wide range of fields. I sincerely hope that each of you will discover something new here, and we look forward to your continued guidance and support for SIS.

Now I regret that I have to inform you that Professor Masataka Yokoyama, who a professor emeritus of Chiba University, passed away in March 2019. He is a member of the originators of SIS and the first Chair. He had sincerely made his effort to manage and promote SIS since the establishment. I heartily pray his soul may rest in peace.

Hirofumi KANO, Chair, The Society of Iodine Science (SIS)  
(Professor of Graduate School of Science, Chiba University )

### *Official Language*

Official language is Japanese. No official simultaneous translation in English will be offered. Presentations for both the oral and the poster presentation welcome in English.

### *Registration Fee*

**Deadline Aug. 3, 2019**

Registration Fee (for **SIS** members, including 1 booklet of abstracts; transactions)

Reduced Registration Fee (before August 3, 2019):

<b>SIS</b> -Members		1,000 yen
Members of Co-Sponsored Society <sup>☆</sup>		1,000 yen
Non-members <sup>☆</sup>		3,000 yen
Students <sup>☆</sup>		Free

<sup>☆</sup>Non-**SIS** members who require the booklet need to pay 2,000yen.

※Everybody is welcome to join **SIS**. Membership fee is 2,000 yen/year. (Students are 1,000 yen/year)

**After Aug. 4, extra 1,000 yen is needed in every category. After registration by E-mail or Facsimile, you will pay the reduced registration fee at the symposium reception desk (On-site payment).**

Banquet (at KEYAKI Reception Hall, Chiba University):

Every Participants	4,000 yen
(Every Students)	2,000 yen

*Time Table (August 30th)*

9:20~ 9:25	<Opening Address > HIROFUMI KANOH ( Chair of SIS )
Chair : T. Kaiho	
9:25~10:05	<Invited Lecture> MARK S. TAYLOR ( Department of Chemistry, University of Toronto) “ <b>Assembly of Nanostructures by Halogen Bonding Interactions of Complementary Macromolecules</b> ”
Chair : S. Takahara	
10:05~10:20	<Oral Presentation> YUDAI MOROTA, KIRA B. LANDENBERGER (Faculty of Engineering, Kyoto University) “ <b>Towards the Formation of Novel Supramolecular Polymer Networks by Halogen-Bonding</b> ”
10:20~10:35	<Oral Presentation> SHIGEKAZU YANO <sup>1</sup> , JUN OGIWARA <sup>1</sup> , KOHEI YUKIZAKI <sup>2</sup> , TAKAHIRO SATO <sup>2</sup> ( <sup>1</sup> Graduate School of Sciences and Engineering, Yamagata Univ.; <sup>2</sup> Ise Chemicals Co.) “ <b>Isolation of Iodine Resistant Bacteria from Soil Samples</b> ”
10:35~10:50	<Oral Presentation> HINAKO EBE, TAKAYUKI CHIBA, AKITO MASUHARA, JUNJI KIDO (Dept. of Organic Materials Science, Yamagata Univ.) “ <b>Iodine-Based Perovskite Quantum Dot Light-Emitting Devices</b> ”
Chair : S. Matsumoto	
10:50~11:30	<Invited Presentation> SHINJI KAWASAKI, YOSUKE ISHII, REMI DATE, MIKAKO TAKAHASHI, TSUYOSHI HASEGAWA (Nagoya Institute of Technology) “ <b>Electrochemical Reactions of Halogen-related Molecules Encapsulated in Single-walled Carbon Nanotubes</b> ”
11:30~12:35	<Short Speeches on Poster Presentations>
<b>POSTER PRESENTATIONS KEYAKI Reception Hall (3F)</b>	
11:00~12:35	Display: From opening the venue~14:45 , Presentation, question and answer: 13:30~14:45
<b>COMMENDATION CEREMONY and LECTURES KEYAKI Hall (1F)</b>	
14:55~15:05	Commendation ceremony
Chair : T. Kitamura	
15:05~15:45	<Award Lecture> NORIO SHIBATA (Department of Nanopharmaceutical Sciences & Department of Life Science and Applied Chemistry, Nagoya Institute of Technology) “ <b>Behind the Success of Synthetic Organofluorine Chemistry: Development of Iodine-based Reagents, Catalysts, and Reactions</b> ”
Chair : K. Moriyama	
15:45~16:00	<Oral Presentation> SHOGO NAKAMURA, KENSUKE KIYOKAWA, SATOSHI MINAKATA (Graduate School of Engineering, Osaka University) “ <b>Intramolecular C–H Amination of Sulfamate Esters Using Iodine Oxidants</b> ”
16:00~16:15	<Oral Presentation> TAKESHI NANJO, NATSUKI KATO, KOSUKE YOSHIKAWA, YOSHIJI TAKEMOTO (Graduate School of Pharmaceutical Sciences, Kyoto University) “ <b>Development of Decarboxylative Acylation Mediated by Hypervalent Iodines</b> ”
16:15~16:30	<Oral Presentation> SHOJI MATSUMOTO, RYUTA SUMIDA, MOTOHIRO AKAZOME (Graduate School of Engineering, Chiba University) “ <b>Electric Conductivity of Thiazolo[2,3-<i>a</i>]isoquinolinium Salts Bearing Halogen Bonding Ability Under Iodine Vapor</b> ”
Chair : K. Ishihara	
16:30~17:10	<Invited Lecture> KÁLMÁN J. SZABÓ (Arrhenius Laboratory, Department of Organic Chemistry , Stockholm University) “ <b>Hypervalent Iodines in Fluorination and Trifluoromethylation Reactions</b> ”
17:30~19:00	<b>BANQUET KEYAKI Reception Hall (3F)</b>

An introduction by the chairman and a five minute question-and-answer period are included for the every lecture.

## Poster Presentation

All posters should be posted between 12:00 and 14:55.

Presenters are requested to be at their papers for discussions:

“S” mark before the poster number shows to give a short speech on poster presentation.

No.	“Title” Author, Co-authors (Affiliation)
01	<p><b>“Prevalence of Gynecological Symptoms Among Women with Goiter- Kaôh Chrêng Island in Cambodian ”</b>  <u>YUKI SHIMOTAKE</u><sup>1</sup>, H. KOIDE<sup>2</sup>, S. YOSHIDA<sup>3</sup>            (1Kochi University Environment Medicine; 2Tohoku University CYRIC Elderly Person High Level Brain Medicine Research; 3Kochi University Medical School )</p>
S02	<p><b>“Preparation for Iodine-Containing Perovskite Nanocrystals by Ultrasonic-Assisted Milling and Application for Light-Emitting Diodes”</b>            J. ENOMOTO<sup>1</sup>, D. SASAKI<sup>2</sup>, <u>KAZUKI UMEMOTO</u><sup>2</sup>, Y. TEZUKA<sup>2</sup>, H. EBE<sup>3</sup>,            Y. TAKAHASHI<sup>3</sup>, T. CHIBA<sup>3,4</sup>, S. ASAKURA<sup>2,5,6</sup>, A. MASUHARA<sup>2,4</sup>            (1Fac. of Eng., Yamagata Univ.; 2Grad. Sch. of Sci. and Eng., Yamagata Univ.; 3Grad. Sch. of Org. Mat. Sci., Yamagata Univ.; 4ROEL, Yamagata Univ.; 5Ise Chem. Corp., 6CIRIC)</p>
03	<p><b>“Aqueous Electrolyte Secondary Batteries Using Redox Reactions of Halogen Ions in Single-Walled Carbon Nanotubes”</b>  <u>REMI DATE</u>, M. TAKAHASHI, Y. ISHII, S. KAWASAKI            (Nagoya Institute of technology)</p>
04	<p><b>“Buildup on Monolayer by Halogen Bonding with Iodine Compounds”</b>  <u>RISA KANDA</u>, T. KAIHO, S. TAKAHARA            (Graduate School of Science and Engineering, Chiba Univ., CIRIC)</p>
S05	<p><b>“Removal of Halide Ion from Aqueous Solution Using Monoclinic Layered Double Hydroxides”</b>  <u>SATOKO TEZUKA</u>            (Chiba Institute of Science)</p>
S06	<p><b>“Method for Quantitative Analysis of Iodide and Iodate”</b>  <u>MAKOTO KOMATSU</u>, T. SAKUMA, T. IZUMI            (Ebara Corporation)</p>
07	<p><b>“Determination of Iodine in Organic Samples by Combustion Ion Chromatography”</b>  <u>HISOMU NAGASHIMA</u> , T. HOTTA            (NAC Techno service Co., Ltd.)</p>
08	<p><b>“Determination of Iodine Species in River Water by Ion Chromatography Using Reversed-Phase C18 Column Coated with Dodecylammonium Cation”</b>  <u>KAZUHIKO TAKEDA</u><sup>1</sup>, A. ISHII<sup>1</sup>, Y. IWAMOTO<sup>1</sup>, K. ITO<sup>2</sup>            (1Graduate School of Integrated Sciences for Life, Hiroshima University; 2Seawater Assessment Technologies Research Institute)</p>
S09	<p><b>“Theoretical Verification of Induced Dipole Interaction Between I<sub>2</sub> and Induced Dipole-Ion Interaction in Formation of I<sub>3</sub><sup>-</sup> and I<sub>5</sub><sup>-</sup>”</b>  <u>SHOZO YANAGIDA</u>, O. YOSHIKAWA, T. KIDA            (M3 Inc.; Osaka Univ.)</p>
S10	<p><b>“Cycloisomerization-Coupling Reaction of N-Propargylamide Derivatives Using Hypervalent Iodine Catalyst”</b>  <u>YUKI UMAKOSHI</u>, Y. TAKEMOTO, A. SAITO            (Graduate School of Engineering, Tokyo University of Agriculture and Technology)</p>
11	<p><b>“Benzofuran Synthesis via Chloromethoxylation of Hydroxychalcone Using Hypervalent Iodine Reagent”</b>            N. KAWASHIMA, K. NAKAOKA, K. OKAMURA, A. NAKAMURA, <u>TOMOHIRO MAEGAWA</u>            (School of Pharmaceutical Sciences, Kindai University)</p>
S12	<p><b>“Synthesis of Indole and Benzofuran Derivatives Using Rearrangement Reaction of Chalcones Mediated by Hypervalent Iodine Reagents”</b>  <u>AKIRA NAKAMURA</u>, A. IMAMIYA, F. RAO, Y. IKEGAMI, T. MAEGAWA            (School of Pharmaceutical Sciences, Kindai University)</p>
S13	<p><b>“Facile Synthesis of Optically Active Polyazahelicene Derivatives by Consecutive Reaction Using a Hypervalent Iodine Reagent”</b>  <u>TAKUMA SASAYAMA</u>,<sup>1</sup> C. IWASHIMIZU,<sup>1</sup> T. OTANI,<sup>2</sup> K. S. KANYIVA,<sup>3</sup> T. SHIBATA<sup>1</sup>            (1School of Advanced Science and Engineering, Waseda University; 2National Institute of Technology, Anan College; 3Global Center for Science and Engineering, Waseda University)</p>

S14	<p><b>“Regio-Selective Dual Functionalization via Amination of Indole Derivatives Using <i>o</i>-Alkoxy(diacetoxyiodo)arenes”</b>  <u>KAZUHIRO WATANABE</u>, K. MORIYAMA  (Graduate School of Science, Chiba University)</p>
S15	<p><b>“Synthesis of Ynamides Using Copper Catalyst and Alkynyl Hypervalent Iodine”</b>  <u>RYOGO TAKAI</u>, N. TADA, E. YAMAGUCHI, A. ITOH  (Gifu Pharmaceutical University)</p>
S16	<p><b>“Study on the Synthesis of <i>cis</i>-<math>\beta</math>-Amide Vinyl-1,2-benziodoxol-3(1<i>H</i>)-one (VBX) Using Ethynyl-1,2-benziodoxol-3(1<i>H</i>)-one (EBX)”</b>  <u>DAISUKE SHIMBO</u>, N. TADA, E. YAMAGUCHI, A. ITOH  (Gifu Pharmaceutical University)</p>
S17	<p><b>“Development of Oxycarbonylation Reaction as Ester Synthesis Method Using Hypervalent Iodine Compound”</b>  <u>TSUKINA KINOMURA</u>, N. TADA, E. YAMAGUCHI, A. ITOH  (Gifu Pharmaceutical University)</p>
S18	<p><b>“Synthesis of 2-Iodo-3-carboxylpyrrole for Heteroaryl Hypervalent Iodine”</b>  <u>TOMOKI YONEDA</u><sup>1,2</sup>, S. NEYA<sup>2</sup>  (Graduate School of Engineering, Hokkaido University<sup>1</sup>;  Graduate School of Pharmaceutical Sciences, Chiba University<sup>2</sup>)</p>
19	<p><b>“Synthesis of Hypervalent Iodine Compounds Activated by Visible Light”</b>  <u>SHO NAGASAWA</u><sup>1</sup>, M. NAKAJIMA<sup>1,2</sup>, T. NEMOTO<sup>1</sup>  (<sup>1</sup>Chiba Univ.; <sup>2</sup>RIKEN)</p>
S20	<p><b>“Chiral Hypoiodite-Catalyzed Umpolung of Indoles for Enantioselective Dearomatization”</b>  <u>HIROKI TANAKA</u>, N. UKEGAWA, M. UYANIK, K. ISHIHARA  (Nagoya Univ.)</p>
21	<p><b>“Asymmetric <math>\alpha</math>-Azidation of Alkenyl Esters Using Chiral Phosphine-Silver Alkoxide Catalysts”</b>  <u>YUME INOUE</u>,<sup>1</sup> T. WATANABE,<sup>2</sup> A. YANAGISAWA<sup>3</sup>  (<sup>1</sup> Faculty of Science, Chiba University; <sup>2</sup>Nippon Chemical Co., Ltd.;  <sup>3</sup>Graduate School of Science, Chiba University)</p>
22	<p><b>“Asymmetric <math>\alpha</math>-Azidation of <math>\beta</math>-Ketoesters Using Chiral Tin Alkoxide Catalysts”</b>  <u>KOTARO TAKAGI</u>,<sup>1</sup> T. EBIHARA,<sup>1</sup> M. G. RUSSELL,<sup>1</sup> M. Horiguchi,<sup>2</sup>  T. WATANABE,<sup>3</sup> A. YANAGISAWA<sup>2</sup>  (<sup>1</sup> Faculty of Science, Chiba University; <sup>2</sup>Graduate School of Science, Chiba University;  <sup>3</sup>Nippon Chemical Co., Ltd.)</p>
23	<p><b>“Asymmetric Mannich-Type Reaction Using Halogen-Bond-Donor Catalyst”</b>  <u>YUKI NISHIDA</u>, S.U KUWANO, T. ARAI  (Grad. Sch. Sci., Chiba Univ.)</p>
24	<p><b>“[4+2] Cycloadditions of 2-Alkenylindoles Using Halogen-Bond-Donor Catalysts”</b>  <u>SATORU KUWANO</u>,<sup>1</sup> T. SUZUKI,<sup>1</sup> M. YAMANAKA,<sup>2</sup> R. TSUTSUMI,<sup>2</sup> T. ARAI<sup>1</sup>  (<sup>1</sup>Graduate School of Science, Chiba University; <sup>2</sup>Department of Chemistry, Rikkyo University)</p>
S25	<p><b>“The Effect of Iodine for Iodolactonization Catalyzed by Lewis Base”</b>  <u>TAKAHIRO HORIBE</u>, Y. TSUJI, K. ISHIHARA  (Nagoya Univ.)</p>
26	<p><b>“Aromatic Iodination by Disulfide as a Lewis Base Catalyst”</b>  <u>SHUNSUKE ISHIDA</u>,<sup>1</sup> K. IIDA,<sup>1</sup> T. WATANABE,<sup>2</sup> T. ARAI<sup>1</sup>  (<sup>1</sup>Graduate School of Science, Chiba University; <sup>2</sup>NIPPOH CHEMICALS CO., LTD.)</p>
S27	<p><b>“Effect of Iodide Sources on Catalytic Rearrangement of Fused Nitrogen Heterocycles”</b>  <u>KAZUHIRO OKAMOTO</u>, G. MATSUSHITA, K. OHE  (Kyoto University)</p>
S28	<p><b>“Metal-Free Synthesis of Blue Dyes via Organocatalytic Oxidation with Iodine Reagents”</b>  <u>YUKI YAMAMOTO</u>, C.-P. DONG, S. KODAMA, A. NOMOTO, M. UESHIMA, A. OGAWA  (Graduate School of Engineering, Osaka Prefecture University)</p>
S29	<p><b>“Flavin-Iodine-Catalyzed Oxidative Sulfonylation of Pyrazolones Using Molecular Oxygen as an Oxidant”</b>  <u>KAZUMASA TANIMOTO</u>, R. OHKADO, H. IIDA  (Graduate School of Natural Science and Technology, Shimane University)</p>
S30	<p><b>“Iodine-Mediated Fluorination of Alkenes with HF Reagents”</b>  <u>RYUICHI KOMOTO</u>,<sup>1</sup> J. OYAMADA,<sup>1</sup> T. KITAMURA,<sup>1</sup> M. HIGASHI,<sup>2</sup> Y. KISHIKAWA<sup>2</sup>  (<sup>1</sup>Faculty of Science and Engineering, Saga University; <sup>2</sup>Daikin Industries, Ltd.)</p>

S31	<p><b>“<math>\alpha</math>-Amino Acids and Amines as Inexpensive Feedstocks for the Asymmetric Synthesis of 4-Imidazolidinones Using Iodine Catalyst”</b>  <u>MARINA TANE</u><sup>1</sup>, K. S. KANYIVA<sup>2</sup>, T. SHIBATA<sup>1</sup>  <sup>1</sup>School of Advanced Science and Engineering, Waseda University;  <sup>2</sup>Global Center for Science and Engineering, Waseda University)</p>
32	<p><b>“Novel Preparation of 2-Arylquinolines from Arylpropionitriles through Iminyl Radical-Mediated Cyclization”</b>  <u>HIROKI NARUTO</u>, H. TOGO          (Graduate School of Science, Chiba University)</p>
33	<p><b>“Facile One-Pot Preparation of 6-Arylphenanthridines from <i>o</i>-Aroylbiaryls through Cyclization of Imino Radical onto Aromatic Ring ”</b>  <u>EIJI KOBAYASHI</u>, A. KISHI, H. TOGO          (Graduate School of Science, Chiba University)</p>
34	<p><b>“Novel Synthesis of Aromatic Nitriles from Aryl Bromides and Arenes using I<sub>2</sub>.”</b>  <u>KO UCHIDA</u>, H. TOGO          (Graduate School of Science, Chiba University)</p>
S35	<p><b>“Chemoselective Reduction of <math>\alpha,\beta</math>-Unsaturated Carbonyl Compounds by Using Hydrogen Iodide”</b>  <u>HAYATO MARUMOTO</u><sup>1</sup>, M. AKAZOME<sup>1</sup>, Y. OTANI<sup>2</sup>, T. KAIHO<sup>2</sup>, S. MATSUMOTO<sup>1</sup>  <sup>1</sup>Graduate School of Engineering, Chiba University; <sup>2</sup>Godō Shigen Co., Ltd.)</p>
S36	<p><b>“Aminoselelenation Reaction of Alkenes by Utilizing a Selenenyl Iodide”</b>  <u>YO ISHIKAWA</u>, S. SASE, K. GOTO          (Department of Chemistry, School of Science, Tokyo Institute of Technology)</p>
S37	<p><b>“Development of Cascade Cyclization Reaction of Polyenes by Taking Advantage of Alkene Activation with Selenenyl Iodides”</b>  <u>TAKA AKI NAKADA</u>, S. SASE, K. GOTO          (School of Science, Tokyo Institute of Technology)</p>
38	<p><b>“A Thought on Cyclopropanation Mechanism of <math>\alpha,\beta</math>-Unsaturated Carbonyl Compounds with Iodoform or Diiodomethyl <i>p</i>-Tolyl Sulfone (DMTS) ”</b>  <u>KAHORI TAMURA</u>, S. MATSUMOTO, M. AKAZOME          (Graduate School of Engineering, Chiba University, Mitsui Chemicals, Inc.)</p>
39	<p><b>“Reactivity of Cyclic Thioamidium Salt and Cyclic Imidazoisoquinolinium Salt toward Various Nucleophiles”</b>  <u>SHOTA WATANUKI</u>, D. TAKADA, M. AKAZOME, S. MATSUMOTO          (Graduate School of Engineering, Chiba University)</p>
S40	<p><b>“Evaluation of Organic Iodine Compounds with Perfluoroalkyl Group as Controlled Radical Polymerization Initiators”</b>  <u>MANAMI UENO</u>,<sup>1</sup> T. KANBARA,<sup>2</sup> T. YAJIMA<sup>1</sup>  <sup>1</sup>Grad. Sch. Of Humanities &amp; Sci., Ochanomizu Univ.; <sup>2</sup>Daikin)</p>
S41	<p><b>“Methods for the Synthesis of Carbonyl-Functionalized Iodotriazolium Salts”</b>  <u>RYOSUKE HARAGUCHI</u>,<sup>1</sup> S. KEMMOCHI<sup>2</sup>, S. HAYAKAWA<sup>1</sup>, T. AKIMOTO<sup>1</sup>,          H. ABO<sup>2</sup>, K. TORITA<sup>2</sup>, S. FUKUZAWA<sup>2</sup>  <sup>1</sup>Graduate School of Engineering, Chiba Institute of Technology; <sup>2</sup>Graduate School of Science and Engineering, Chuo University)</p>
42	<p><b>“Development and Application of Lewis Acidic Novel Halonium Salts”</b>  <u>TOMOKI HASEGAWA</u>, Y. YOSHIDA, S. ISHIKAWA, T. MINO, M. SAKAMOTO          (Graduate School of Engineering, Chiba University)</p>
43	<p><b>“Design of Halogen Bonding Donors Based on Fluoro-functionalized Iodobenzenes”</b>  <u>KENTA SASAKI</u>, Y. SUMII, N. SHIBATA          (Nagoya Institute of Technology)</p>
S44	<p><b>“Synthesis and Application of Novel <math>\pi</math>-Expanded Perfluoroiodoarenes”</b>  <u>NAOYA OHTSUKA</u>, S. SUGIURA, H. OTA, T. SUZUKI, N. MOMIYAMA          (Institute for Molecular Science; SOKENDAI)</p>
45	<p><b>“Development of Polymer-Immobilized Nucleophilic Catalyst via Halogen Bond”</b>  <u>TATSUAKI HORI</u>, N. MOMIYAMA          (Institute for Molecular Science; SOKENDAI)</p>
46	<p><b>“Development of Luminescent Materials Using Iodine Compounds as Halogen Bond Donors”</b>  <u>YUSUKE YOSHIGOE</u>,<sup>1</sup> T. YAMAKAWA,<sup>2</sup> Z. WANG,<sup>1,2</sup> M. KANAI,<sup>2</sup> Y. KUNINOBU<sup>1</sup>  <sup>1</sup>Institute for Materials Chemistry and Engineering, Kyushu Univ.,  <sup>2</sup>Graduate School of Pharmaceutical Sciences, The Univ. of Tokyo)</p>

S47	<p><b>“Luminescent Properties of Crystal of Dibenzoylmethanate–BF<sub>2</sub> Complexes Having Iodine Atoms”</b>  <u>TAKUMU ARI</u>,<sup>1</sup> S. YAMAMOTO,<sup>1</sup> A. SAKAI,<sup>1</sup> H. IIDA,<sup>2</sup> Y. OZAWA,<sup>2</sup> M. ABE,<sup>2</sup>  Y. MATSUI,<sup>1,3</sup> E. OHTA,<sup>1,3</sup> H. IKEDA<sup>1,3</sup>  (<sup>1</sup>Grad. Sch. Eng., Osaka Pref. Univ.; <sup>2</sup>Grad. Sch. Mat. Sci., Univ. of Hyogo;  <sup>3</sup>RIMED, Osaka Pref. Univ.)</p>
S48	<p><b>“Control Molecular Orientation in Asymmetric Thienoacenes via Iodine–Iodine Interactions”</b>  <u>AMANE MATSUNAGA</u><sup>1</sup>, Y. OGAWA<sup>1</sup>, D. KUMAKI<sup>2</sup>, S. TOKITO<sup>2</sup>, H. KATAGIRI<sup>1,2</sup>  (<sup>1</sup>Graduate School of Science and Engineering Yamagata University.  <sup>2</sup>Graduate School of Organic Materials Science Yamagata University)</p>

## *Correspondence*

For more information please contact to Secretariat of **SIS** .

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