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## November 22 (Wed)

16:40-18:40 Poster Session B (Rooms C, D and E)

**PB(C)-01 — PB(C)-85 (Room C)**

**PB(D)-01 — PB(D)-46 (Room D)**

**PB(E)-01 — PB(E)-53 (Room E)**

### Room C

**PB(C)-01** **Keisuke Ogumi, Kohki Nagata, Yuki Takimoto, Kentaro Mishiba, Yutaka Matsuo**

Investigation of Spatial Resolution of Mechanochromism Using Fluorenylidene-Acridane Showing Visual Color Change by Mechanical Pressure

**PB(C)-02** **Younis Baqi, Ahmed Hussein Ismail**

Microwave-Assisted Synthesis, Characterization and Crystal Structure of the Near Infrared Organic Dye “(E)-3-[4-(dimethylamino)phenyl]-1-(2-hydroxyphenyl)prop-2-en-1-one”

**PB(C)-03** **Yung-Chung Chen, Shih-Chieh Yen, Zhong-Han Lee, Jen-Shyang Ni, Ching-Chin Chen**

The Impact of Position and Number of Methoxy Group(s) to Tune the Free Radical Photopolymerization Properties of Triphenylamine-based Chalcone Visible-Light-Absorbing Type II Photoinitiators

**PB(C)-04** **Hiroyuki Kagawa, Yoshiaki Okabe, Chizuru Sasaki, Yoshitoshi Nakamura**

Electric Insulating Resin with High Heat Resistance Derived from Woody Lignin

**PB(C)-05** **Shotaro Nakamura, Madoka Tsuboi, Taisei Taniguchi, Yuji Nishii, Norimitsu Tohnai, Koji Hirano, Masahiro Miura**

Synthesis of Bisbenzofuopyrazines and Room Temperature Phosphorescence Properties in Mixed Crystal Systems

**PB(C)-06** **Bryan Yat Kit Hui, Kang Le Osmund Chin, Jovan Jun Long Lim, Xiaogang Liu, Jianwei Xu, Ming Hui Chua**

Conjugated Polymers Containing Pyromellitic Diimide Acceptor for Electrochromic Applications

**PB(C)-07** **Ming Hui Chua, Kang Le Osmund Chin, Jianwei Xu**

Towards Electrofluorochromic Sensing of Nitroaromatics Using Aggregation-Induced Emission (AIE)-Active Poly(acrylates)

**PB(C)-08** **Yuichiro Tokoro, Keigo Yamaguchi, Shin-ichi Yamamoto, Toshio Koizumi**

Tuning Luminescent Behavior of 9,10-Disilylanthracenes by Macrocyclic Tethers

**PB(C)-09** **Moe Tasaki, Hirotaka Kondo, Tsuyuka Sugiishi, Hideki Amii**

Synthesis of Tetracenes with Fluorine-Containing Groups

- PB(C)-10** **Debabrata Samanta, Manish Kumar, Sugandha Singh, Parul Verma, Kamal K. Kar, Tapas Kumar Maji, Manas K Ghorai**  
Triphenylamine and Terpyridine–Zinc (II) Complex Based Donor–Acceptor Soft Hybrid as a Visible Light-Driven Hydrogen Evolution Photocatalyst.
- PB(C)-11** **Yuki Shibutani, Shuhei Kusumoto, Kyoko Nozaki**  
Synthesis, Characterization and Trapping of a Cyclic Diborylcarbene, an Electrophilic Carbene
- PB(C)-12** **Eiji Ihara, Hiroaki Shimomoto**  
Polymerization of Diazoacetates Initiated by Pd(*N*-arylmaleimide)/NaBPh<sub>4</sub> System
- PB(C)-13** **Shuri Yamaoka, Haruka Nakanishi, Haruki Nishimura, Yohei Yamanaka, Masahiro Muraoka, Michihisa Murata**  
Intermolecular Domino Cross-Scholl Reaction for Acenes
- PB(C)-14** **Tomoya Nakagomi, Shusei Fujiki, Kazuma Amaike, Akiko Yagi, Kenichiro Itami**  
Dendrimer-Supported Synthesis and Application of Water-soluble Bare Polythiophenes
- PB(C)-15** **Koichi Mitsudo, Ren Matsuo, Toki Yonezawa, Yuri Tachibana, Seiji Suga**  
Efficient Synthesis of Thienoacene Derivatives by Electrochemical C–S Bond Formation Using Halogen Mediator
- PB(C)-16** **Daiki Imoto, Hiroki Shudo, Akiko Yagi, Kenichiro Itami**  
Synthesis, Properties and Host-guest Chemistry of Polyhalogenated Cycloparaphenylenes
- PB(C)-17** **Nils Bäumer, Soichiro Ogi, Lorenz Borsdorf, Shigehiro Yamaguchi, Gustavo Fernández**  
Amphiphile Desymmetrisation Alleviates Steric Constraints and Governs Self-assembly Pathways in Aqueous Media
- PB(C)-18** **Kazutoshi Nishimura, Shibo Xu, Yuji Nishii, Koji Hirano**  
Synthesis of Benzophosphole Derivatives by Phosphenium Dication Mediated Sequential C–P/C–C Bond Forming Reaction of Arylalkynes
- PB(C)-19** **Kyota Ohkura, Tsuneaki Sakurai, Masaki Shimizu**  
Development of Self-Encapsulated Conjugated Polymers toward Applications as Efficient Solid-state Emitters
- PB(C)-20** **Yuta Matsukawa, Hitoshi Tamiaki**  
Synthesis and Optical Properties of Tetrazolium Mesoionic Fluorophores
- PB(C)-21** **Shunichiro Ito, Kazuo Tanaka**  
Development of Near-Infrared Emissive Boron Complexes Based on Molecular Orbital Engineering of Nitrogen-Containing  $\pi$ -Conjugated Ligands
- PB(C)-22** **Masaki Shimizu, Ryuhō Mizuno, Tsuneaki Sakurai**  
Development of Fluorescent Liquids Based on 2,5-Dialkoxyterephthalates
- PB(C)-23** **Nobushige Kai, Hideya Kono, Akiko Yagi, Kenichiro Itami**  
Synthesis and Properties of Methylene-Bridged [6]Cyclo-2,6-naphthylene
- PB(C)-24** **Bonwoo Koo, Cheoljae Kim**  
Cascade Enyne Metathesis Polymerization for Stereocontrolled Degradable Polymer from Enantiomerically Pure *N,O*-Acetal Monomer

- PB(C)-25** **Rikuto Kanno, Makoto Ouchi, Takaya Terashima**  
Self-Sorting and Thermoresponsive Materials of Amphiphilic Random Copolymers: Self-Assemblies Controlled by Salts
- PB(C)-26** **Ching-Piao Chu, Shun-Jie Jhang, Jayabalan Pandidurai, Yogajivan Rout, Shreyam Chatterjee, Rumi Ozawa, Yutaka Ie, Chia-Lin Tsai, Yen-Ju Cheng, Yoshito Tobe**  
Regioselective Synthesis of Donor-Acceptor-Substituted Hexaaryl-s-indacenes
- PB(C)-27** **Sorachi Miwa, Daichi Mizutani, Kiyosei Takasu, Hiroshi Takikawa**  
Synthesis and Optical Properties of Helicene-Fused Xanthene Dyes
- PB(C)-28** **Masaya Kobayashi, Satoshi Suzuki, Tsuneaki Sakurai, Masaki Shimizu**  
Rational Design of Organic Fluorophores Highly Emissive both in Molecularly Dispersed and Aggregated States Based on Excited-state Intramolecular Proton Transfer
- PB(C)-29** **Masaki Shimizu, Yuki Okada, Tsuneaki Sakurai**  
Room-Temperature Phosphorescent Properties of 1,4-Dibenzoyl-2,5-bis[2-(diarylsilyl)phenoxy]benzenes
- PB(C)-30** **Aoi Okusa, Kenta Nishimura, Tsuneaki Sakurai, Masaki Shimizu**  
Design and Development of 2',5'-Dioxy-*p*-Terphenyls as Organic Fluorophores That Exhibit Efficient Ultraviolet Emission in the Solid State
- PB(C)-31** **Komari Suzuki, Kazukuni Tahara**  
Synthesis and Properties of Dehydro[12]annulene with Three Fused Biphenylene Units
- PB(C)-32** **Hironori Kobayashi, Ken Watanabe, Yoshitaka Mori, Katsuhiko Ono**  
Solid-State Photophysical Properties Based on Assembly of Bis(dioxaborine) Derivatives
- PB(C)-33** **Yukino Egawa, Tsuneaki Sakurai, Masaki Shimizu**  
Effect of Tacticity and Length of Strapped Chains on Luminescent Properties of Self-encapsulated Poly(*p*-Phenyleneethynylene)s
- PB(C)-34** **Mizuki Yasui, Hitoshi Tamiaki**  
Self-Aggregation of Synthetic Bacteriochlorophyll-*d* Analogs Possessing a Porphyrin  $\pi$ -Skeleton and a Chiral Esterifying Group
- PB(C)-35** **Tomohiro Iwai, Shinsuke Abe, Hiromichi V. Miyagishi, Hiroshi Masai, Shin-ya Takizawa, Jun Terao**  
An Insulated  $\pi$ -Conjugated 2,2'-Bipyridine: Enhanced Properties in Luminescent Materials and Metallaphotoredox Catalysis
- PB(C)-36** **Kazuto Takaishi, Fumiya Yoshinami, Chihiro Maeda, Tadashi Ema**  
Pyrene-tethered Naphthalene Dimers and Tetramers as a Circularly Polarized Luminescence Dye
- PB(C)-37** **Naoki Nishiguchi, Satoshi Suzuki, Kohei Sato, Tsuneaki Sakurai, Masaki Shimizu**  
Water-Soluble Fluorophores Based on Excited-State Intramolecular Proton Transfer-Type Molecules with Tunable *Enol/Keto* Dual Emissions
- PB(C)-38** **Hideya Kono, Yuanming Li, Riccardo Zanasi, Guglielmo Monaco, Francesco F. Summa, Lawrence T. Scott, Akiko Yagi, Kenichiro Itami**  
Synthesis and Properties of Methylene-Bridged Cycloparaphenylenes

- PB(C)-39** **Daisuke Asai, Kazukuni Tahara**  
Synthesis and Properties of a *p*-Terphenoquinone Derivative Linked Through an Antiaromatic Benzocyclobutathiophene Unit
- PB(C)-40** **Georgi R. Genov, Hiroki Takezawa, Harumi Hayakawa, Makoto Fujita**  
Tetradehydro-Diels-Alder Reactions of Flexible Arylalkynes Facilitated by Folding Inside a Molecular Cage
- PB(C)-41** **Keisuke Iijima, Takahiro Sasamori**  
Synthesis and Reactions of a Stable Bis(ferrocenyl)stannylene
- PB(C)-42** **Suguru Kobayashi, Yumiko Nakajima, Kohei Tamao, Takahiro Sasamori**  
1,6-Disila[4.4.4]propellane: Improved Synthetic Methodology and Its Reactivity
- PB(C)-43** **Tomoaki Kanazawa, Tsuyoshi Nishikawa, Makoto Ouchi**  
Synthesis of Branched Poly(Vinyl Alcohol) via Radical Polymerization of Vinyl Boronic Acid Pinacol Ester Followed by Oxidation of Boronyl Pendants
- PB(C)-44** **Taiyou Tsutsumi, Takaaki Miyazaki, Osamu Hayashida**  
Environmentally Responsive Fluorescence Behavior of 2,3-Naphthalimides fused with Benzothiophene and Benzofuran
- PB(C)-45** **Souta Abe, Yuna Seki, Seiya Fujiwara, Chisaki Teraoka, Naoki Noguchi, Hidekazu Okamura, Yukihiro Arakawa, Keiji Minagawa, Yasushi Imada, Fumitoshi Yagishita**  
Synthesis of Imidazo[1,5-*a*]pyridinium Salts Showing Dual-State Emission and Piezofluorochromism
- PB(C)-46** **Masaki Yamaguchi, Susumu Tsuda, Shin-ichi Fujiwara, Yutaka Nishiyama**  
Synthesis and Physical Properties of Cyclodextrin Based [c2]Daisy Chain Rotaxane Encapsulating Two Diarylacetylene Cores with Amino Groups
- PB(C)-47** **Satoshi Muranaka, Koichi Nakaoka, Io Yamamoto, Chihiro Maeda, Kazuto Takaishi, Tadashi Ema**  
Terpolymerization of Epoxides, CO<sub>2</sub>, and Heteroallenes for the Synthesis of New CO<sub>2</sub>-Based Polymers
- PB(C)-48** **Hiroshi Suzuki, Tsuyoshi Nishikawa, Makoto Ouchi**  
Protecting-Group Design in Vinylboronic Acid Monomers for Radical Polymerization toward Advanced Polymer Synthesis via Post-Polymerization Transformation
- PB(C)-49** **Satoru Hiroto, Mana Wakita, Moeko Chujo**  
Polar Crystals with Unsymmetrically Substituted  $\pi$ -Extended Aza[5]helicenes
- PB(C)-50** **Kento Kawano, Tetsuo Iwanaga**  
Synthesis and Electronic Properties of Anthracene Bisimide-Based Donor-Acceptor Molecules with Paraphenylene Spacer
- PB(C)-51** **Masahiro Hayakawa, Naoyuki Sunayama, Shu I. Takagi, Yu Matsuo, Asuka Tamaki, Shigehiro Yamaguchi, Shu Seki, Aiko Fukazawa**  
Electron-Accepting Hydrocarbons Composed of Flattened 1D Fragment of Fullerene C<sub>60</sub>
- PB(C)-52** **Masahiro Yamashina, Koki Okabe, Eiji Tsurumaki, Shinji Toyota**  
A Self-Complementarity of Molecular Tweezers: From Cyclic Hexamer to Cuboctahedron Assembly

- PB(C)-53** Akihiro Orita, Yuta Akagi, Hikaru Watanabe, Sou Furumatsu, Yasuhiro Okuda, Haruo Akashi, Kan Wakamatsu  
 Synthesis of (Z)-Ene-diyne from Three Molecules of Arylethyne via Iodosulfonylation, Sonogashira-Hagihara Coupling, and Nucleophilic Substitution
- PB(C)-54** Takumi Shiokawa, Aiko Fukazawa  
 Dianionic Species of S-Pechmann Dye: Analogies and Differences between a Cross-Conjugated  $\gamma$ -Thiolactone and Pentafulvalene
- PB(C)-55** Yan Zhang, Shota Fukuma, Rui Shang, Eiichi Nakamura  
 Iron-Catalyzed Aza-Annulative  $\pi$ -Extension using a Self-Oxidation Auxiliary
- PB(C)-56** Takuma Kawada, Tsuyoshi Nishikawa, Makoto Ouchi  
 Synthesis of Vinyl Polymers Bearing Boronic Acid on the Main Chain and their External Stimuli-Responsive Behaviors
- PB(C)-57** Koki Fujimura, Yoshihiro Ueda, Yousuke Yamaoka, Kiyosei Takasu, Takeo Kawabata  
 Rotaxane Synthesis by Catalytic Bromination of Axle Phenols
- PB(C)-58** Gaku Miyamoto, Mohamed Mehawed Abdellatif, Kotohiro Nomura  
 Synthesis and Characterization of Biobased Polymers Consisting of Long-Chain Fatty Acids and Oligopeptides as Monomer Unit
- PB(C)-59** Kohei Nishioki, Yuki Ohishi, Junya Chiba, Masahiko Inouye  
 Photosensitizing Ability of [5]rotaxane-type Photosensitizer Containing Pyridinium-conjugated Dye
- PB(C)-60** Kotohiro Nomura, Sirilak Mekcham, Moe Unoki  
 (Arylimido)vanadium(V)-Alkylidene Catalysts for Stereospecific Synthesis of Bottlebrush Polymers by Living ROMPs, and Efficient Ring Closing Metathesis (RCM)
- PB(C)-61** Masahiko Fukumoto, Satoru Hiroto  
 Synthesis and Characteristics of Unsymmetric Aza[5]helicenes
- PB(C)-62** Mako Ito, Masahito Murai, Shigehiro Yamaguchi  
 Photophysical Properties and Aggregation Behavior of Group 14 Element-Bridged Diazulenylmethyl Cations
- PB(C)-63** Mahadeva Swamy M. M., Yuta Murai, Setsuko Tsuboi, Kenji Monde, Takashi Jin  
 Synthesis of Shortwave-Infrared (SWIR) Organic Fluorescent Probes for Specific Biomolecular Imaging
- PB(C)-64** Miku Naruse, Soichiro Ogi, Keiji Kajiwara, Natsumi Fukaya, Masayasu Taki, Shigehiro Yamaguchi  
 Fluorescence Imaging of Supramolecular Assemblies in Artificial Lipid Droplets
- PB(C)-65** Shota Fukuma, Rui Shang, Eiichi Nakamura  
 Zn-mediated Cyclization for Divergent Synthesis of Spiro-conjugated Molecules
- PB(C)-66** Kazuma Kurokawa, Naoki Ogawa, Yusuke Kuroda, Yousuke Yamaoka, Hiroshi Takikawa, Kiyosei Takasu  
 Chromic Properties of Hydroxyfluoranthenes
- PB(C)-67** Ryohei Hasegawa, Masato Ito, Yuji Kubo  
 Near-infrared Room Temperature Phosphorescence in Arylselanyl BODIPY-Doped Materials

- PB(C)-68** Margarita Claudya Maida, Satoshi Takegawa, Masato Ito, Yuji Kubo  
Afterglow Sensing Using RTP-Active Thiophene Boronate Ester-Crosslinked PVA
- PB(C)-69** Chih-Chien Chu, Wei-Chu Huang, Yi-Yin Lu, Hsuan-Yu Lin  
Unexpected Redox Responsive Property of Novel Coumarin-Triphenyliminophosphorane Fluorophores
- PB(C)-70** Atsuki Shimizu, Tetsuo Iwanaga  
Synthesis and Properties of N-Containing  $\pi$ -Extended 2-Anthrylene Dimer via Oxidative Coupling
- PB(C)-71** Masaki Hara, Yuko Hirooka, Takanori Iwasaki, Kyoko Nozaki  
Synthesis, Structure, and Optical Property of Tris(biaryldiyl)rhodate(III) and -iridate(III) Complexes
- PB(C)-72** Saeko Yamada, Soichiro Ogi, Tatsuya Nishimura, Katsuhiko Maeda, Kazuhiro Fujimoto, Takeshi Yanai, Shigehiro Yamaguchi  
Impact of Seeding Method on Aggregate Morphologies and Chiroptical Properties in Aryleneethynylene  $\pi$ -Electron Systems
- PB(C)-73** Riina Kuwata, Takefumi Imanishi, Shota Hasegawa, Yuta Uetake, Junichi Usuba, Kosuke Yasui, Aiko Fukazawa  
An Air-stable Ni(0) Complex Coordinated by an Antiaromatic Hydrocarbon
- PB(C)-74** Marina Mizuno, Yu Harabuchi, Satoshi Maeda, Yuuya Nagata  
Development of Circularly Polarized Luminescence Materials Containing Chiral Binaphthyl Moieties Based on Theoretical Calculations of Their Excited States
- PB(C)-75** Yasuhiro Okuda, Matsuri Mori, Natsuo Matsunaga, Yuji Imada, Akihiro Orita  
Regiodivergent Synthesis of Polycyclic Aromatic Amines via Palladium-Catalyzed Benzannulation of Ynamine and the Subsequent Dephosphinylative Functionalization
- PB(C)-76** Seiji Akiyama, Yu Harabuchi, Satoshi Maeda, Yuuya Nagata  
Insertion of a Boron Atom into a Benzene Ring: New Route to Access for Borepins
- PB(C)-77** Sandeep Sharma, Lin Lizhen, Gary Jing Chuang  
Photorearrangement of Azoxybenzenes
- PB(C)-78** Barana Sandakelum Hettiarachchi, Yuta Uetake, Yumi Yakiyama, Hidehiro Sakurai  
Metal-Carbon Core-Shell Nanostructures with Exceptional Precision using Microchip Laser Ablation in a Polystyrene Solution
- PB(C)-79** Svetlana Em, Katsuaki Iwasa, Maiki Nishimoto, Yumi Yakiyama, Hidehiro Sakurai  
Self-assembly and Emission Properties of Benzo[e]pyrene Dicarboxylic Acid in Solution and Solid States
- PB(C)-80** Hideto Ito, Kanna Fujishiro, Yuta Morinaka, Yohei Ono, Tsuyoshi Tanaka, Lawrence T. Scott, Kenichiro Itami  
Lithium-Mediated Mechanochemical Cyclodehydrogenation for Nanographene Synthesis



- PB(C)-81** Yohji Misaki, Hideaki Oka, Masafumi Ueda, Takashi Matsuda, Akimi Tahara, Mio Watanabe, Tomoya Misaki, Aya Yoshimura, Takashi Shirahata, Minoru Hayashi, Toyonari Sugimoto, Zen-ichi Yoshida  
Tetrakis(1,3-benzodithiol-2-ylidene)cyclopentane and Its Derivatives: Synthesis, Structures and Redox Behaviour
- PB(C)-82** Koudai Yoshimura, Shin Ogasawara, Hitoshi Tamiaki  
Introductions of Michael Acceptors at the C13<sup>2</sup> of Methyl Pheophorbide-*a/a'*
- PB(C)-83** Yi Young Kang, Ja Won Kim, Jae-Won Ka  
Synthesis and Properties of Reactive Mesogens with Negative Wavelength Dispersion Birefringence
- PB(C)-84** Bao-Nguyen Nguyen, Angela Grommet, Arnaud Tron, Maureen Georges, Jonathan Nitschke  
Heat Engine Drives Transport of an Fe<sup>II</sup><sub>4</sub>L<sub>4</sub> Cage and Cargo
- PB(C)-85** Ayumi Osawa, Momoe Ishimura, Riko Shimada, Teppei Tada, Yoshiaki Nakao  
Synthetic Studies on Tagetitoxin

## Room D

- PB(D)-01** **Jacob Davies, Julien R. Lyonnet, Bjørn Carvalho, Basudev Sahoo, Craig S. Day, Yaya Duana, Álvaro Velasco-Rubio, Marc Obst, Per-Ola Norrby, Kathrin H. Hopmann, Ruben Martin**  
Kinetically Controlled Carboxylation of Secondary Alkyl Bromides Through Dual Photoredox and Nickel Catalysis
- PB(D)-02** **Andrés Felipe León Roja, Sara Helen Kyne, Philip Wai Hong Chan**  
Gold(I)- and Chiral Brønsted Acid-Catalysed Regiodivergent and Enantioselective Cycloisomerization of 1,4-Enynes Esters to Norbornene-Embedded Tricarboycles
- PB(D)-03** **Simon J Cooper, Kyle F. Biegasiewicz, Xin Gao, Claire G. Page, Jacob S. DeHovitz, Yujia Tao, Todd K. Hyster, Sarah. E. Reisman**  
Novel Light-Enabled Transformations – Asymmetric HAT in Oxidoreductases & Synthesis of Highly Oxidized [3.2.1] Bicycles via a Radical Polar Crossover Annulation
- PB(D)-04** **Lukas S. Vogl, Mario Waser**  
Lewis Base Activation of Allenolates and Their Use in Cyclisation Reactions
- PB(D)-05** **Guillaume Berthon**  
Digital Chemical Synthesis at Syngenta Crop Protection
- PB(D)-06** **Naoki Yasukawa, Ami Yamanoue, Shuichi Nakamura**  
Enantioselective Synthesis of  $\alpha,\alpha$ -Disubstituted Cyclic  $\alpha$ -Amino Acids via Aza-Henry Reaction Using Cinchona Alkaloid Sulfonamide/zinc (II) Catalysts
- PB(D)-07** **David Weinzierl, Magdalena Piringer, Paul Zebrowski, Lotte Stockhammer, Mario Waser**  
Photochemical Wolff Rearrangement Initiated Generation and Subsequent  $\alpha$ -Chlorination of C1 Ammonium Enolates
- PB(D)-08** **Sayantani Das, Chendan Zhu, Derya Demirbas, Bill Eckhard, Chandra Kanta De, Benjamin List**  
Asymmetric Counteranion Directed Photoredox Catalysis
- PB(D)-09** **Yuki Kojima, Koji Hirano**  
Copper-Catalyzed Enantioselective Hydroboration of 1-Trifluoromethylthioalkenes
- PB(D)-10** **Muhammad Sohail, Fujie Tanaka**  
Control of Chemical Reactions in Non-aqueous Solutions Using Buffering Molecules
- PB(D)-11** **James Osborne, Yuvraj Garg, Fujie Tanaka**  
Enantioselective Mannich Reactions of Ketones Catalyzed by New 1,3-Diamine-Derived Catalysts
- PB(D)-12** **Santanu Mondal, Fujie Tanaka**  
Direct Enantioselective Mannich Reactions of Pyruvates as Nucleophiles: Strategies for Controlling the Reactions using Organocatalysts
- PB(D)-13** **Tautvydas Kireilis, Kálmán J. Szabó**  
Organocatalytic Asymmetric Homologation of Alky-, Alkenyl- and Arylboronates
- PB(D)-14** **Kanami Matsui, Toshiki Yamaguchi, Tsuyuka Sugiishi, Hideki Amii**  
Synthetic Applications of Aryl Difluoromethylsilanes with Various Functional Groups



- PB(D)-15** Roy Lavendomme, Ivan Jabin  
Iteroselectivity: How to Control the Number of Repeated Reactions
- PB(D)-16** Zhichao Wang, Shoko Yamazaki, Tsumoru Morimoto, Akiya Ogawa  
Intramolecular Cyclization Reactions of Arylpropargyl Amides of Electron-deficient  $\alpha,\beta$ -Alkenyl Carboxylates and Related Compounds
- PB(D)-17** Haichao Liu, Vincent Ho-Man Lau, Pan Xu, Tsz Hin Chan, Zhongxing Huang  
Diverse Synthesis of  $\alpha$ -Tertiary Amines and Tertiary Alcohols via Desymmetric Reduction of Malonic Esters
- PB(D)-18** Ganesh Chandra Upreti, Anand Singh  
Pd-Catalyzed Photochemical Alkylative Functionalization of C=C and C=N Bonds
- PB(D)-19** Bharat Singh, Manish Kumar, Gaurav Goswami, Indresh Verma, Manas K. Ghorai  
Ring-Opening Cyclization (ROC) of Aziridines with Propargyl Alcohols: Synthesis of 3,4-Dihydro-2*H*-1,4-Oxazines
- PB(D)-20** Palchykov V.A., Dil K.V., Shevchenko O.V.  
New Heterocyclic Ensembles Based on  $\beta$ -Ketosulfone
- PB(D)-21** Tomoya Sakaguchi, Tomohiro Shibata, Yusuke Fukuda, Aya Tazawa, Yasuhiro Uozumi, Yoshimasa Matsumura, Osamu Shimomura, Atsushi Ohtaka  
An Effective Additive for Copper-Catalyzed Hydroxylation of Aryl Iodides
- PB(D)-22** Misa Kawase, Ryugo Suzuki, Kaito Kobayashi, Tsutomu Shinagawa, Aya Tazawa, Yasuhiro Uozumi, Yoshimasa Matsumura, Osamu Shimomura, Atsushi Ohtaka  
Oxidation of Primary Amines to Nitriles Catalyzed by Polystyrene-Stabilized Ru Nanoparticles in Water
- PB(D)-23** Ryoma Kishimoto, Yuka Iwakiri, Kazuhiko Sakaguchi, Takahiro Nishimura  
Synthesis of Chiral Spiro[4.5]decadienones via Chirality-transferring Oxidative Intramolecular Cyclization of Allenylsilane-tethered Phenols
- PB(D)-24** Misa Kawase, Tomohiro Shibata, Shohei Masuu, Masaki Yamaguchi, Yoshimasa Matsumura, Osamu Shimomura, Atsushi Ohtaka  
Expression of the Reaction Selectivity and the Substituent Effect in Coupling Reactions by Reducing the Catalyst Loading
- PB(D)-25** Lotte Stockhammer, Andreas Eitzinger, Kevin Kasten, Rebecca Craik, David Weinzierl, Armin R. Ofial, Andrew D. Smith, Mario Waser  
Isochalcogenourea Catalysis: From Catalyst Synthesis over Kinetic Studies to Application Reactions
- PB(D)-26** Yuya Tsutsui, Yuta Uchiyama, Yoshiyuki Manabe, Koichi Fukase, Akihito Konishi, Makoto Yasuda  
Photoactivated Lewis Acid Catalyst Driven by Intramolecular Excimer Formations: The Effect of Substituted Position of Pyrenylmethyl Groups on Catalytic Efficiency
- PB(D)-27** Jumpei Taguchi, Kota Kimura, Takumi Okuyama, Kazunobu Igawa, Katsuhiko Tomooka, Takamitsu Hosoya  
Synthesis of Multisubstituted Aromatics via 3-Azidoaryne and 3-Triazenylaryne Species

- PB(D)-28** **Hiroki Andoh, Ryo Nakagawa, Tatsuya Akutagawa, Teruhisa Tsuchimoto**  
Update: Direct Suzuki–Miyaura Cross-Coupling of a C(sp<sup>2</sup>)–B(dan) Bond in Aryl/Alkenyl–B(dan)
- PB(D)-29** **Yu Tokura, Shibo Xu, Koji Hirano**  
Palladium-Catalyzed C–H Alkynylation of Benzophospholes
- PB(D)-30** **Yin Zheng, Zhongxing Huang**  
A Unified and Desymmetric Approach to Chiral Tertiary Alkyl Halides
- PB(D)-31** **Yosuke Murakami, Hiroto Hori, Kensuke Hirotaki, Kenji Hosoi**  
Fluoral · HF, Stable and High Reactive form of 2,2,2-Trifluoroacetaldehyde
- PB(D)-32** **Takumi Wakikawa, Daichi Sekine, Yuta Murata, Youka Bunno, Masahiro Kojima, Yuki Nagashima, Ken Tanaka, Tatsuhiko Yoshino, Shigeki Matsunaga**  
Native Amide-Directed C(sp<sup>3</sup>)–H Amidation Enabled by Electron-Deficient Rh<sup>III</sup> Catalyst and Electron-Deficient 2-Pyridone Ligand
- PB(D)-33** **Shinya Tabata, Suguru Yoshida**  
Synthesis of Organosulfur Compounds through Thiohalogenation of Aryne Intermediates
- PB(D)-34** **V. Schmalz, Ulrich Koert**  
Additive Free Photo-Hydroacylation: Tetralones From *Ortho*-Allylbenzaldehydes
- PB(D)-35** **Shigeharu Wakabayashi, Masahiro Takumi, Shintaro Kamio, Masayuki Wakioka, Yasuhiro Ohki, Aiichiro Nagaki**  
Synthesis and Dynamic Self-Assembly of 5-Diethylboryl-2,3'-bipyridine Using Flow Chemistry
- PB(D)-36** **Jun Sawamura, Daikan Ieiri, Ryo Yazaki, Takashi Ohshima**  
Synthesis of  $\alpha$ ,  $\beta$ -Dehydroamino Acid by Proline-Catalyzed Aldol Condensation of Glycine Schiff Base
- PB(D)-37** **Takeru Torigoe, Akika Kon, Ryohei Kawazu, Kairi Mine, Yoichiro Kuninobu, Toshimichi Ohmura**  
Iridium-Catalyzed C(sp<sup>3</sup>)–H Borylation Using LLX-Type Tridentate Ligands
- PB(D)-38** **Takeshi Nanjo, Natsuki Kato, Yuta Seki, Yoshiji Takemoto**  
A Pyridine-Based Donor-Acceptor Molecule Enables the Photocatalytic Cleavage of C–Br Bonds through Halogen Bonding
- PB(D)-39** **Takashi Ikawa, Naoki Oka, Tsuyoshi Yamada, Satoshi Obika, Shuji Akai, Hironao Sajiki**  
Highly Stable but Reactive ArB(Epin)s
- PB(D)-40** **Hajime Ito**  
Development of Mechanoredox Reactions
- PB(D)-41** **Takeo Sakai, Tomoki Furuhata, Chise Okumura, Masatoshi Futamura, Kota Hosoe, Kaho Umemura, Naotaka Noda, Yuji Mori**  
Synthesis of Fused Cyclic Amines Using the 3-Aza-Cope/Mannich Reactions
- PB(D)-42** **Yusuke Matsumoto, Takaya Fujie, Takeshi Yamamoto, Michinori Suginome**  
Chirality-Switchable Helical Polymer Ligands Bearing Phosphoramidite Pendants

- PB(D)-43** Noam Orbach, Rahul Suresh, Ilan Marek  
Synthesis of Polysubstituted Housanes
- PB(D)-44** Jeongyeon Hwang, Heeun Kim, Hyewon Jang, Hyeonghwan Seo, Yonghoon Kwon  
Divinyl Carbinol: A New Structural Motif for Benzene Synthesis
- PB(D)-45** Hyunghwan Seo, Jaehee Kim, Hyewon Jang, KyeSung Park, Yonghoon Kwon  
Utilizing Sacrificial Sulfoxide for the Synthesis of Highly Substituted Pyridine
- PB(D)-46** Tim Gatzemeier, Yue Liu, Misato Akamatsu, Takashi Okazoe, Kyoko Nozaki  
Straightforward Pentafluorosulfanylation for Molecular Design and PFAS Alternatives

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- PB(E)-01** **Kenji Matsumoto, Satoshi Takeda, Yasunori Toubaru, Ayaka Miki, Tsukasa Hirokane, Masahiro Yoshida**  
Heterogeneously Catalyzed Aerobic Oxidative Biaryl Coupling of Aniline Derivatives
- PB(E)-02** **Taiki Hashimoto, Sensuke Ogoshia, Yoichi Hoshimoto**  
Triarylboranes for Catalytic Hydrogenation of *N*-Heteroaromatics with H<sub>2</sub>/CO/CO<sub>2</sub> Mixed Gas
- PB(E)-03** **Wei-Feng Zheng, Zhongxing Huang**  
Asymmetric Malonic Ester Synthesis of  $\alpha$ -Amino Acids
- PB(E)-04** **Kazuki Fujita, Momona Hattori, Shuichi Nakamura**  
Construction of Consecutive Tetra-Substituted Stereogenic Centers by Enantioselective Reaction of Oxazol-5-(4*H*)-Ones with  $\beta$ -Nitroacrylates
- PB(E)-05** **Taiki Mori, Koki Abe, Seiji Shirakawa**  
Asymmetric Synthesis of  $\alpha$ -Spiro- $\gamma$ -lactones and  $\alpha$ -Substituted  $\gamma$ -Lactones via Chiral Bifunctional Sulfide-Catalyzed Bromolactonizations
- PB(E)-06** **Kaili Zhang, Shintaro Okumura, Yasuhiro Uozumi**  
Hydrogenolysis of *O*- and *N*-Benzyl Groups with Tetrahydroxydiboron in Water by Using an Amphiphilic Polymer-Supported nano-Palladium Catalyst
- PB(E)-07** **Kenji Ota, Kazunori Nagao, Dai Hata, Naoya Miyamoto, Ryosuke Tokunoh, Yusuke Sasaki, Hirohisa Ohmiya**  
Synthesis of *tert*-Alkylphosphonate Oligonucleotides through Light-Driven Radical-Polar Crossover
- PB(E)-08** **Yuta Uetake, Yu Ozawa, Koji Kubota, Hajime Ito**  
Structure Analysis of Borylcopper Intermediates in Solution using Variable-Temperature X-ray Absorption Spectroscopy System
- PB(E)-09** **Su Been Kim, Eun Sun Park, Jinho Kim**  
Aerobic Oxidative  $\alpha$ -Cyanation of Tertiary Amines Using Azo/Hydrazide Redox
- PB(E)-10** **Santanu Maiti, Yunji Choun, Jinho Kim**  
Aerobic Oxidative Dehydrogenation of Tertiary Indolines to Indoles Using Azo/Hydrazide Redox
- PB(E)-11** **Donghyeon Lee, Ryo Shintani**  
Palladium-Catalyzed Synthesis of 4-Sila-4*H*-benzo[*d*][1,3]oxazines by Intramolecular Hiyama Coupling
- PB(E)-12** **Ga Young Kim, Suhee Do, Jinho Kim**  
Cross-Dehydrogenative Coupling of Tertiary Amines with Nitromethane Using Manganese-catalyzed Aerobic Oxidation of Hydrazide
- PB(E)-13** **Mikishiro Hayashi, Ryudai Michikita, Yoshinosuke Usuki, Tetsuya Satoh**  
Fused Heterocycle Construction via Annulative Coupling under Rhodium Catalysis
- PB(E)-14** **Su Been Kim, Santanu Maiti, Jinho Kim**  
One-Pot Synthesis of 1,3,4-Oxadiazines from Acylhydrazides and Allenolates

- PB(E)-15** **Sakino Kazama, Masahiro Yamanaka**  
A Novel Bipyridine Ligand with Conformationally Flexible Chiral Side Chain:  
Development of Copper-Catalyzed Enantiodivergent Michael Reaction
- PB(E)-16** **Ikumi Furusawa, Takumi Suzuki, Yan Yu, Takayoshi Arai**  
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- PB(E)-17** **Kenshiro Hitoshio, Hayate Saito, Jun Shimokawa, Hideki Yorimitsu**  
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- PB(E)-18** **Kenshin Sano, Kentaro Okano, Atsunori Mori**  
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- PB(E)-19** **Hayate Kinouchi, Tomohiro Ito, Yusuke Kuroda, Hiroshi Takikawa,  
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Synthesis, Structure, Properties, and Application of Planar Chirality of Medium-  
Sized *trans*-Cycloalkadiene-Platinum Complexes
- PB(E)-20** **Jiamao Hao, Zhongxing Huang**  
Preparation of Atropisomeric Diaryls via Reductive Desymmetrization of  
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- PB(E)-21** **Hee-Chan Jeong, Hyo-Jun Lee**  
Photo-Induced Chemoselective Catalytic Activation of *p*-Methoxybenzyl Esters for  
Generation of Acyl fluoride
- PB(E)-22** **Eunsol Choi, Hyo-Jun Lee**  
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under an Iodoarene/HF·Pyridine/*m*CPBA System
- PB(E)-23** **Ye-Lin Han, Hyo-Jun Lee**  
A Novel Method for Non-Activated Cyclopropyl Ester Activation Promoted by  
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- PB(E)-24** **Kyosuke Kojima, Katsuhiko Ono**  
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Their BF<sub>2</sub> Complexes
- PB(E)-25** **Kazuki Nishihara, Yiyuan Jiang, Takashi Kurogi, Hideki Yorimitsu**  
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- PB(E)-27** **Hiroyoshi Masuda, Hiroki Morishita, Rikuto Sasaki, Kaito Takahata,  
Kento Uemura, Honoka Mori, Iwao Hachiya**  
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- PB(E)-28** **Kazuki Ogura, Itsuki Isozumi, Shuichi Nakamura**  
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- PB(E)-29** Haruka Aoyama, Jyunya Morimoto, Maho Taniguchi, Junpei Matsuoka, Akira Nakamura, Tomohiro Maegawa  
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- PB(E)-30** Keisuke Yoshida, Takaaki Watanabe, Juo Masuda, Shinji Kitagaki  
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- PB(E)-31** Dopil Kim, Haneul Yoo, Min Kim  
 Practical Amide Directing Group Transformation in C-H Bond Functionalizations
- PB(E)-32** Ryota Wakabayashi, Shuo Wang, Takashi Kurogi, Hideki Yorimitsu  
 C-4 Arylation of 2-Sulfinylbenzothiazoles via Pummerer Activation
- PB(E)-33** Yuto Furuki, Mikiko Koshiba, Kazuhiro Morisaki, Ryohei Doi, Yoshihiro Sato  
 Synthesis of 2,3-Disubstituted Indoles by Nickel(0)-Catalyzed Migratory Cycloisomerization of *o*-Alkynylanilides
- PB(E)-34** Sho Yamashita, Kota Kaneta, Tomonori Ida, Takahiro Soeta, Yutaka Ukaji  
*N*-Heterocyclic Carbene-Catalyzed Catalytic Asymmetric Desymmetrization of *meso*-Diols
- PB(E)-35** Jonghyeon Lee, Daeyeon Lee, Min Kim  
 TEMPO-Functionalized MOF Catalysts for Oxidative Coupling of 2-Aminophenols
- PB(E)-36** Go Yamagiwa, Tetsuaki Fujihara  
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- PB(E)-37** Daisuke Yamauchi, Kentaro Yamakawa, Takahiro Nishimura  
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- PB(E)-38** Tao Fan, Zhongxing Huang  
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- PB(E)-39** Koto Sekiguchi, Tsutomu Kimura  
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- PB(E)-40** Akihiro Iyoshi, Yui Makura, Masakazu Tanaka, Atsushi Ueda  
 Stereoselective Glycosidation of D-Fructofuranose and Application to Synthesis of  $\alpha$ -D-Allulofuranoside
- PB(E)-41** Shin-ichiro Ohira, Fei Rao, Mio Kashiwagi, Junpei Matsuoka, Akira Nakamura, Tomohiro Maegawa  
 A Concise Synthesis of Thio- and Seleno-aurones *via* NBS-induced Cyclization of MOM-protected 2'-Chalcogenochalcones
- PB(E)-42** Seiya Higashioka, Yugo Kotera, Akira Nakamura, Junpei Matsuoka, Shinya Nakamura, Isao Nakanishi, Tomohiro Maegawa  
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- PB(E)-43** Rakuto Yoshida, Keisuke Asano, Daisuke Uraguchi  
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- PB(E)-44** **Bo-Jyun Wun, Yung-Chen Hu, Chu-Yun Chi, Gary Jing Chuang**  
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- PB(E)-45** **Hisazumi Tsutsui, Takatsugu Murata, Isamu Shiina**  
*E*-Selective Elongation Reaction of Aldehydes with Weinreb Amide-type Horner–Wadsworth–Emmons Reagent
- PB(E)-46** **Naoki Sugihara, Yasuko Osakada, Mamoru Fujitsuka, Manabu Abe, Yoshihiro Nishimoto, Makoto Yasuda**  
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- PB(E)-47** **Shintaro Mori, Tsubasa Takagishi, Yutaka Nishiyama**  
Rhenium-Catalyzed C-C Bond Formation with 1,3-Dicarbonyl Units as a Leaving Group
- PB(E)-48** **Cheng-jie Zhu, Xiuying Yang, Jianchun Wang**  
Unlocking the Potential: Electrocatalytic Cyclic Deracemization Enabled by a Chemically Modified Electrode
- PB(E)-49** **Punlop Kuntiyong**  
Synthesis of 2-Piperidone-fused Isoxazolidine via Tandem Cope Elimination / Nitrene [3+2]-Cycloaddition
- PB(E)-50** **Ren-You Guan, I-Ting Chen, Hsuan Lin, Jeng-Liang Han**  
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- PB(E)-51** **M. D. R. Lutz, S. Roediger, M. A. Rivero-Crespo, B. Morandi**  
Mechanistic Investigation of the Rhodium-catalyzed Transfer Hydroarylation Reaction
- PB(E)-52** **Yunhao Song, Toshimichi Ohmura, Michinori Suginome**  
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- PB(E)-53** **Jiaying Li, Yusuke Matsumoto, Ikuo Sasaki, Toshimichi Ohmura, Michinori Suginome**  
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