

# Poster Presentation

---

## September 4, Thursday

Odd Numbers : 15:45 – 16:45    Even Numbers : 16:45 – 17:45

### [PB-001]\*

Satoko Okuda, Toshimichi Ohmura, Takeru Torigoe (Kyoto Institute of Technology)  
A Novel Method for *in situ* Preparation of Ir/NNSi Complexes and Their Use in C(sp<sup>3</sup>)–H Borylation

### [PB-002]\*

Subin Park, Youngsuk Kim (Pusan University)  
N-Heterocyclic Carbene-Derived Carbon Disulfide Radical Ligands for  
Palladium Diradical Complexes

### [PB-003]\*

Nicholas C. C. McVeigh, David J. Nelson (University of Strathclyde)  
Probing the oxidative addition reactions of [Ni(COD)(dppf)] with aryl and  
vinyl triflates

### [PB-004]\*

Mirei Kawamoto, Kohei Tamao, Takahiro Sasamori (University of Tsukuba)  
Synthesis and Structure of 9,10-Difluoro-9,10-disila-9,10-dihydroanthracene

### [PB-005]

Naoki Oku, Keito Fuke, Ken Yamazaki, Yasunori Matsui, Hiroshi Ikeda, Tomoya Miura (Okayama University)  
*anti*-Markovnikov Hydration of Alkenes by Highly Oxidative Copper Photoredox Catalysis

### [PB-006]

Wei-Yi Lin, Guan-Zhou Lin, Ting-Wei Chang, Tsz-Fai Leung (National Sun Yat-sen University)  
Advancing catalysis through strongly donating N-heterocyclic imine moiety

### [PB-007]

Nuray Uzunlu Ince, Hamed Huda Ahmed Mohamed, László Kollár, László Mika, Attila Takács (University of Pécs)  
Potential Alternative Solvents for Palladium-Catalyzed Aminocarbonylation of Iodo(hetero)arenes

### [PB-008]\*

T. Kieran Redpath, Catherine E. Weetman, Tom J. A. Corrie, David J. Nelson (University of Strathclyde)  
Developments in Nickel-Catalysed Cross-Coupling of Sterically Hindered Aryl Substrates

### [PB-009]

Hiroshi Naka, Marie Ono, Toshiki Asai, Yuki Shichi, Asuka Naraoka, Yasuhiro Ohki, Yoshiji Takemoto (Kyoto University)  
An Iridium Carboxylate Precatalyst for Transfer Dehydration of Amides

### [PB-010]

Takeaki Iwamoto, Tomoki Ishikawa, Naohiko Akasaka, Shintaro Ishida (Tohoku University)  
Thermal Isomerization of a Tetrasilicon Analog of But-1,3-dien-1-ide Anion

### [PB-011]\*

Kihyuk Sung, Hye-Young Jang (Ajou University)  
Highly Active Zn-Gallate Catalyst for Tailored CO<sub>2</sub>-Based Polymer Architectures

**[PB-012]\***

Anna A. M. Miller, Phillip Biallas, Benjamin D. A. Shennan, Darren J. Dixon (University of Oxford)  
Enantioselective Total Synthesis of (+)-Incargranine A Enabled by Bifunctional Iminophosphorane and Iridium Catalysis

**[PB-013]\***

Simon Stifel, Leon F. Richter, Claudia Schmidt, Alexander Pöthig, Fritz E. Kühn (Technical University of Munich)  
Abnormal Tetrazolylidene Gold(I) Chloride Complexes and their Potential in Catalysis and Medicinal Chemistry

**[PB-014]\***

Keigo Miki, Ryosuke Matsubara, Masahiko Hayashi (Kyoto University)  
Non-aerobic and One-pot Synthesis of Carbazoles from Cyclohexanones and Arylhydrazines

**[PB-015]**

Koichi Mitsudo, Naoto Maekawa, Ryo Magata, Seiji Suga (Okayama University)  
Synthesis of *N,O*-Bidentate Difluoroborane Derivatives via Iodide-Promoted Demethylative Borylation

**[PB-016]**

Takanori Shima, Qingde Zhuo, Xiaoxi Zhou, Gen Luo, Zhaomin Hou (RIKEN)  
Dinitrogen Activation and Functionalization by Multinuclear Hydrides

**[PB-017]\***

Yeongyeon Lee, Seohyeon Yoon, Jinwoo Kim (Chungnam National University)  
Streamlined Umpolung Coupling to Diarylamine using Easily Accessible Copper Catalyst

**[PB-018]\***

Seonyoung Kim, Eunji Kwon, Hyunwoo Kim (POSTECH)  
Electrochemical Direct C(sp<sup>2</sup>)-H Difluoromethylation and 1,1-Bis(difluoromethylation) of Alkenes

**[PB-019]**

Yuki Yamamoto, Reiya Kani (University of Yamanashi)  
Dual Cooperative Palladium Catalysis for Regio- and Stereoselective Vicinal *trans*-Bisphosphination of Terminal Alkynes with Diphosphines and Its Application to One-pot Synthesis of Functional Phosphorus Materials

**[PB-020]**

Akira Matsumoto, Nayu Hashimoto, Wang Chao, Keiichi Hirano (Kanazawa University)  
Modular Synthesis of 1,5-Disubstituted 1,2,3-Triazoles from Phosphonium Ylide as Multifunctional Radical/Polar Linchpin

**[PB-021]**

En-Chuan Zhang, Yu-Chen Lo, Ya-Fan Lin (National Dong Hwa University)  
Tunable Reactivity in a Dynamic Imine System: Effects of Acid and Solvent

**[PB-022]**

Christophe Bour, Robert J. Mayer, Marie Vayer (Université Paris-Saclay)  
Electrochemical Propargylation of *N*-Heterocycles: Unlocking the Potential of 2,3-Allenoic Acids

**[PB-023]\***

Masayuki Abe, Yoshihiro Nishimoto, Makoto Yasuda (The University of Osaka)  
Photoredox-Catalyzed C–F Bond  $\alpha$ -Aminoalkylation of Trifluoromethylarenes with Trialkylamines

**[PB-024]\***

Syeon Jeong, Sung Bin Min, Bo Hyeong Ryu, Jung Min Joo (Kyung Hee University)  
Ligand-Enabled Synergistic Pd/Ag Catalysis for C–H Alkenylation of 2,1,3-Benzoheterodiazoles

**[PB-025]\***

Nobuki Katayama, Kazuhiko Semba, Tetsuaki Fujihara, Yasushi Obora (Kansai University)

Palladium-Catalyzed Formal *anti*-Markovnikov Hydroamidation of 1,3-Dienes with Disilane via 1,4-Silylamidation

**[PB-026]**

Shijiang He, Zhongxing Huang (The University of Hong Kong)

Asymmetric synthesis of tetrasubstituted allenes and olefins via remote desymmetrization

**[PB-027]**

Yamato Kato, Reika Yamada, Takayuki Shioiri, Masato Matsugi (Meijo University)

Regioselective Air-oxidation of Olefins with Fluorous Iron(III) Salen Complex

**[PB-028]**

Jianye Li, Zhongxing Huang (The University of Hong Kong)

Asymmetric decarboxylation of alkynes for the construction of allenes

**[PB-029]\***

Takahiro Yasuda, Suguru Yoshida (Tokyo University of Science)

Selective Transformations of Azides with Various Functional Groups

**[PB-030]\***

Haruka Yamaguchi, Takashi Kurogi, Hideki Yorimitsu (Kyoto University)

Oxidative Cross-Coupling Reaction of 1,2-Dizincioalkenes with Another Organozinc Compounds

**[PB-031]**

Kohei Takahashi (The University of Tokyo)

Transition metal-catalyzed degradation of epoxy resins via cleavage of C(sp<sup>3</sup>)-O bonds to recover small molecules

**[PB-032]**

Felix Flachsmann, Andreas Goeke, Paul N. Davey, Ivan Tse, Simon Ellwood, Martin Lovchik (Givaudan Schweiz AG)

Homogeneous Metathesis: Industrial Synthesis of the Macroyclic Musk AmbreXolide™

**[PB-033]**

Tsuyoshi Mita, Ren Yamada, Yamato Ueno, Yu Harabuchi, Ruben Staub, Alexandre Varnek, Wataru Matsuoka, Satoshi Maeda (Hokkaido University)

The Automated Reaction Path Search for Rh-Catalyzed Intermolecular [5+2] Cycloaddition of Vinylcyclopropanes and Alkynes

**[PB-034]\***

Hassan Saeed, Yuto Matsuoka, Kazuki Tanifugi, Yasuhiro Ohki (Kyoto University)

Highly selective reduction of carbon monoxide to methane using a cuboidal [Mo<sub>3</sub>S<sub>4</sub>Fe] catalyst

**[PB-035]\***

Ishita Roy, Joyram Guin (Indian Association for the Cultivation of Science)

C(sp<sup>2</sup>)-H Acylation of Benzo[h]quinolines at Room Temperature via Aldehyde Autoxidation and Palladium Catalysis Cooperation

**[PB-036]\***

Yunhao Song, Michinori Suginome (Kyoto University)

Iridium-Catalyzed Intermolecular Silylene Transfer Reaction Enabling Synthesis of 1,2-Oxasilines

**[PB-037]\***

Shugo Tasaki, Koh Sugamata, Takahiro Sasamori (University of Tsukuba)

Synthesis and Structure of a Dithiosilacarboxylate Dimer

**[PB-038]\***

Wataru Ishihama, Takahiro Sasamori (University of Tsukuba)

Synthesis and Structure of 1,2,3-Trisilacyclopentenes

**[PB-039]\***

Jieun You, Jaesook Yun (Sungkyunkwan University)

Copper-Catalyzed Enantioselective Hydroboration of Cyclic Dienes

**[PB-040]**

Yukako Yoshinaga, Ryo Nishimaru, Michinori Suginome (Kyoto University)

Insertion Cyclopolymerization of Diisocyanides toward Helical Polymers Bearing Chiral Eight-Membered [1,4]Diazocine Rings

**[PB-041]\***

Satoshi Suzuki, Kazuhiko Semba, Tetsuaki Fujihara (Kyoto University)

Zinc-catalyzed allylation of carbonyl compounds by in situ generated  $\beta$ -silyl allylzinc intermediates from a zinc complex, a silylborane and 1,2-dienes

**[PB-042]\***

Samuel Wesley Oultram, David Nelson, Katherine Wheelhouse (University of Strathclyde)

$^{19}\text{F}$  NMR as a tool for understanding the initiation, speciation and catalytic activity of air-stable nickel(II) pre-catalysts

**[PB-043]\***

Sekwang Baek, Juno Im, Eun Jeong Yoo (Kyung Hee University)

Dearomatic [5 + 4] Cycloaddition via Intramolecular 1,9-Proton Transfer and Stereoselective Ring Contraction

**[PB-044]\***

Gugançhandař Vedarethinam, Shih-Ching Chuang (National Yang Ming Chiao Tung University)

Pd(II)-Catalyzed  $\text{C}(\text{sp}^2)\text{-H}$  Alkenylation of 2-Amino Biaryls with Bulky Internal Alkynes: From Alkenylation to Orthogonal Polycyclic Hydrocarbons

**[PB-045]\***

Keigo Masaki, Naoki Arai, Tetsuya Yamamoto (Tokyo Denki University)

Mesoionic-Carbene Coordinated Palladium Complexes Catalyzed Addition of Arylboron Compounds to Aldehydes or Enones

**[PB-046]**

Akira Saito, Masakatsu Shibasaki (Institute of Microbial Chemistry)

Catalytic Asymmetric Addition of Acetonitrile to Unactivated Ketimines

**[PB-047]**

Yushu Jin, Kohei Kamemura, Yaya Takana, Takanori Matsuda (Tokyo University of Science)

Synthesis of Unsymmetrical Cationic Biaryls by Palladium-Catalyzed Suzuki-Miyaura Coupling of Cationic Aryl Boronic Esters

**[PB-048]\***

Aituar Tulipkaliyev, Masaya Sawamura, Yusuke Masuda (Hokkaido University)

Synthesis of  $\beta$ -Vinylated Tri(1-adamantyl)phosphine and Catalytic Activity of Its Gold Complex

**[PB-049]**

Nobuyuki Mase, Hiroto Sakurai, Kohei Sato, Tetsuo Narumi (Shizuoka University)

Advancing Green Oxidation: Reductant-Free Ozonolysis Using Fine Bubbles

**[PB-050]\***

Ketsanee Jantawan, Matthias Tamm, Kotohiro Nomura (Tokyo Metropolitan University)

Efficient Synthesis of Cyclic Olefin Copolymers by Ethylene Copolymerization with Norbornene and Tetracyclododecene Using Ti Complexes Containing Unsymmetric Imidazolin-2-iminato Ligands

**[PB-051]\***

Cristina Cheibas, Laurent El Kaïm, Anne-Chantal Gouget, Marianne Guillard-Sabas, Yvan Sixa, Samir Zard (École Polytechnique)  
PFAS-free omniphobic coatings via PDMS-based surface functionalization

**[PB-052]\***

Shivesh Baburam, Frederick G. West (University of Alberta)  
An Approach to the Desymmetrization of Diols *via* Chemoselective Carbene O–H Insertion of Diazo and *N*-tosylhydrazone Compounds

**[PB-053]**

Shintaro Okumura, Aya Tazawa, Kaoru Torii, Yasuhiro Uozumi (Kyoto University)  
Photocatalytic Reduction of Aliphatic Aldehydes and Ketones by an Amphiphilic Resin-Supported Iridium Complex

**[PB-054]**

Takuya Kochi, Kazuma Muto, Miho Hatanaka, Fumitoshi Kakiuchi (Keio University)  
How Chain Walking of a Palladium Catalyst Occurs: Theoretically Suggested Differences from Conventional Drawings

**[PB-055]**

Hiroyuki Ueda, Soichiro Sato, Kenta Noda, Kosuke Okada, Ken-ichi Ojima, Nagao Kobayashi, Hidetoshi Tokuyama (Tohoku University)  
Unified and Convergent Synthesis of Bisindole Alkaloids via Iron-Catalyzed Oxidative Coupling

**[PB-056]\***

Hamzah Sharif, Luke A. McCall, Robert J. Phipps (University of Cambridge)  
sRuPhos: A Second Generation Sulfonated Phosphine Ligand for Atroposelective Suzuki-Miyaura Cross-Coupling

**[PB-057]\***

Filip Duplić, Nikola Topolovčan (Ruđer Bošković Institute)  
Design and Synthesis of Chiral Cyclopentadienyl Ligands from *L*-(+)-Tartaric Acid

**[PB-058]\***

Litian Chen, Takahiro Doba, Masaharu Nakamura (Kyoto University)  
Iron-Catalyzed Hiyama Coupling between HOMSi and Unactivated Alkyl Halides

**[PB-059]\***

Geng Li, Takashi Inagaki, Shun Suginome, Yoshiaki Nishibayashi (The University of Tokyo)  
Electrocatalytic Ammonia Oxidation Catalyzed by Ruthenium Complexes Featuring Redox-Active Ligands

**[PB-060]\***

Minghua Li, Lingtao Wang, Huachen Yan, Zhaoyang Cheng, Zhan Lu (Zhejiang University)  
Iron-Catalyzed Enantioselective Hydrosilylation of  $\alpha$ -Substituted Vinylsilanes

**[PB-061]\***

Martin C. Dietl, A. Stephen K. Hashmi (Heidelberg University)  
Access To Super Bulky Gold(I) Catalysts Via On-Metal Suzuki-Couplings As A Key For New Reactivities in Gold-Catalysis

**[PB-062]\***

Asuka Tonomura, Shotaro Shibutani, Kazunori Nagao, Hirohisa Ohmiya (Kyoto University)  
Alkylhalogenation of Electron-Deficient Alkenes via A Dual Photoredox/Cobalt Catalysis

**[PB-063]\***

Hiroki Iwamoto, Kazutoshi Nishimura, Kosuke Yasui, Koji Hirano (The University of Osaka)  
Synthesis of Benzoarsole Derivatives via Arsenic Cation

**[PB-064]**

Hidetoshi Noda, Ajijur Rahaman, Ramasamy Manoharan, Xinxin Tang, Yasuko Asada, Masakatsu Shibasaki (Institute of Microbial Chemistry)

Saturated N-Heterocycle Synthesis with Alkyl Metallonitrenes

**[PB-065]\***

Naveen Kumar, Amrendra Kumar Singh (Indian Institute of Technology Indore)

Synthesis, characterization, and electrochemical studies of Ruthenium NHC Complexes with proton-responsive ligands

**[PB-066]\***

Francesco Ravera, Alessandro Bortoli, Federico Floreani, Didier Bourissou, Andrea Biffis (University of Padua)

Direct hydroarylation of organic isocyanates with heteroarenes: a new challenge for Au-mediated  $\pi$ -acid catalysis

**[PB-067]**

Francesco Ravera, Federico Floreani, Andrea Biffis (University of Padua)

Fine chemicals synthesis through gold(I) catalyzed direct hydroarylations

**[PB-068]\***

Chihiro Maruya, Kaito Yagi, Takeru Torigoe, Toshimichi Ohmura (Kyoto Institute of Technology)

Iridium-Catalyzed  $C(sp^3)$ –H/O–H Coupling for the Synthesis of Benzofurans

**[PB-069]\***

Kanta Ueji, Ryo Shintani (The University of Osaka)

Alkoxide-Catalyzed Synthesis of Multisubstituted Silacyclopentanes by Silylborylative Cyclization of Dialkenylsilanes

**[PB-070]\***

Jihoon Kim, Eun Joo Kang (Kyung Hee University)

Sustainable Fe-Iminopyridine Complexes for the Regioselective Synthesis of Oxazolidinones Using Carbon Dioxide

**[PB-071]**

Beiling Wu, Pincella Francesca, Masaharu Nakamura (Kyoto University)

Iron-Catalyzed Synthesis of Urushiol Analogs Derived from Fatty Acid

**[PB-072]**

Hsiang-Jen Cheng, Hsiu-Fu Hsu (Tamkang University)

Tetra[4]helicenes by Cyclization of Triarylbenzene

**[PB-073]**

Naohiko Yoshikai, Kento Tsukiji, Kazuya Kanemoto (Tohoku University)

Stereoselective C–C Bond-Forming Reactions of Cyclopropanols via Enolized Homoenolate

**[PB-074]**

Kouki Matsubara, Manato Moriguchi, Tsutomu Takashima, Yuichiro Tago (Fukuoka University)

A New Class of Tertiary Phosphines Bearing An Alkyl Substituent with Remote Steric Bulk for Ni-Catalyzed Suzuki-Miyaura Coupling

**[PB-075]**

Hajime Yokoyama, Masahiro Miyazawa (Toyama University)

Catalyst-controlled Stereoselective Synthesis of Phomonol

**[PB-076]**

Bartłomiej Pigulski, Jakub Bielczyński, Nurbey Gulia, Sławomir Szafert (University of Wrocław)

Organometallic and Organometalloid Species Derived from 1-Halopolyyynes

**[PB-077]\***

Yan Zhang, Xiaoyu Zhang, Linhong Long, Hui Chen, Eiichi Nakamura, Xiaoming Zeng (The University of Tokyo)

Catalytic Conversion of Carboxylic Esters to Mono- or Bis(boryl)alkanes via Boryloxy Chromium–Carbene Intermediates

**[PB-078]\***

David Sánchez-Roa, Sophia Belhomari, Eva Hevia (University of Bern)

Sodium-mediated C–H Silylation of (Hetero)Arenes: Leveraging Alkali Metal Effects to Access Organosilicon Compounds

**[PB-079]\***

Ryu Tadano, Takeshi Yasui, Yoshihiko Yamamoto (Nagoya University)

Heteroaryl-Selective C–H Silylation for Asymmetric Synthesis of Trifluoromethylated Heterobenzhydrols

**[PB-080]**

Keiyo Nakai, Takahiro Konishi, Takashi Kikuchi, Kuniyoshi Miki, Mitsuhsisa Yamano (SPERA PHARMA Inc.)

3D ED/MicroED structural analysis of various organometallic complexes

**[PB-081]\***

Nicolas Kaiser, Julius Busse, Ben Wichmann, Viktoria H. Gessner (Ruhr-University Bochum)

Organoauminum Reagents in Pd-Catalyzed Cross-Coupling Reactions

**[PB-082]\***

Natsuki Minematsu, Yuji Nishii, Koji Hirano (The University of Osaka)

Synthesis of Carborane Sulfides by Palladium-Catalyzed Coupling Reaction

**[PB-083]**

Sergei A. Gorbatov, Luiz Paulo Melchior de Oliveira Leão, and Carlos Roque Duarte Correia (University of Campinas)

Enantioselective Heck-Matsuda  $\gamma$ -Arylation of  $\beta,\gamma$ -Unsaturated Butenolides: Efficient Synthesis of Quaternary Arylated Scaffolds

**[PB-084]\***

Yusui Takahashi, Keiichiro Iizumi, Junichiro Yamaguchi (Waseda University)

Deoxygenative radical reactions of ketones via phopha–Brook rearrangement

**[PB-085]\***

Takuo Tamura, Takeshi Yamamoto, Michinori Suginome (Kyoto University)

Cu-Catalyzed Asymmetric Electrophilic Fluorination in Pure Water Using Water-Soluble Helical Chiral Polymer Ligands

**[PB-086]\***

Shinya Tabata, Suguru Yoshida (Tokyo University of Science)

Synthesis of Organosulfur Compounds through Bromothiolation of Silylaryl Triflates

**[PB-087]**

Minghao Zhang, Zhongxing Huang (The University of Hong Kong)

Enantioconvergent Deacylative Functionalization towards  $\alpha$ -Quaternary Nitriles

**[PB-088]\***

Mizuki Katagiri, Shin-ichi Fukuzawa (Chuo University)

Silver complexes catalyzed asymmetric three-component cycloaddition of allylamine, methyl glyoxylate, and phenylmaleimide

**[PB-089]**

Kosaku Tanaka, III, Ren Yamada, Suvankar Debbarma, Wataru Kanna, Wataru Matsuoka, Hiroki Hayashi, Satoshi Maeda, Tsuyoshi Mita (Hokkaido University)  
Computationally Guided Design of Photoexcited Pd Catalysts for Ketyl Radicals Generation from Alkyl Ketones

**[PB-090]\***

Nitsan Barel, Kamal Uddin Ansari, Shrouq Mujahed, Katarzyna Młodzikowska-Pieńko, David Danovich, Renana Gershoni-Poranne, Yuri Tulchinsky (The Hebrew University of Jerusalem)  
Get positive: First cationic tripodal ligand and its Rh(I) complexes

**[PB-091]**

Adi Wolfson, Oshrat Levy-Ontman (Sami Shamoon Collage of Engineering)  
Heterogenization of metal catalyst on carrageenan polysaccharides for sustainable synthesis

**[PB-092]\***

Shoma Kobayashi, Kazuma Abe, Haru Kobayashi, Kwek Cheah Ming, Takeshi Hata (Institute of Science Tokyo)  
Iron-TMEDA Catalyzed Selective Substitution of Aliphatic Grignard Reagents to Diene and Triene Monoepoxides: A Formal Total Synthesis of (+)-Zincophorin

**[PB-093]**

Yukina Taka, Sakura Yoshiyama, Yasutaka Kataoka (Nara Women's University)  
Oxidation of Cyclooctane with Molecular Oxygen Catalyzed by Cationic  $Cp^*$  Iridium(III) Complexes Bearing the NHC Ligand

**[PB-094]**

Tsubasa Omoda, Kosuke Iwata, Koshi Miyazawa, Kenta Kurashima, Hirohige Yamaura, Bo Zhu, Yu Tian, Yuta Takahira, Koji Yamamoto, Daisuke Hashizume, Shigeyoshi Sakaki, Tetsuro Murahashi (Institue of Science Tokyo)  
Atomic Diffusion in an Organometallic Cluster Induced by a Surface Vacancy

**[PB-095]**

Antonio Torres-Calís, Eduardo Gabriel Guzmán-López, Miguel Reina, Marcos Flores-Alamo, Juventino J. García (Universidad Nacional Autónoma de México)  
MHAT-Driven Copper-Catalyzed Hydrosilylation of Alkenes: A New Radical Pathway for a Less Explored Regioselectivity

**[PB-096]\***

Taiki Negoro, Ryohei Doi (The University of Osaka)  
Pd-Catalyzed Enantioselective Tsuji-Trost Reaction of Acyclic Fluoroenolate

**[PB-097]\***

Naoki Morita, Shinnosuke Yoshikawa, Eisuke Ota, Junichiro Yamaguchi (Waseda University)  
Rh-Catalyzed Synthesis of Isobenzofurans Toward the Synthesis of Aspergichromones

**[PB-098]**

Zhenyao Li, Jun Takaya (The University of Osaka)  
Synthesis, Structure, and Reactivity of Heterobimetallic Complexes Featuring Period 4 Transition Metal–Rh bonds

**[PB-099]**

Erin Hayashi, Tetsuji Fujii, Gouki Makado, Yuki Araki, Tsuyoshi Kawai, Tsumoru Morimoto (Nara Institute of Science)  
Rh(I)-Catalyzed Selective Hydroformylation Reactions with Formaldehyde

**[PB-100]\***

Runlin Yang, Shaheen Kasim Mulani, Gaurav Shukla, Sandeep Rameshwarao Tapkir, Masahiko Seki, and Kazushi Mashima (The University of Osaka)  
A Ketone Synthesis via Cu(I)-Catalyzed Coupling Reaction of 2-Pyridylthioesters with Grignard Reagents

**[PB-101]**

Seongwoo Bae, Jinwoo Kim (Chungnam National University)  
Quinoxaline-Based Reductive Photocatalysts for Nitrile Synthesis

**[PB-102]\***

Matthias Scherr, Martin C. Dietl, A. Stephen K. Hashmi (Heidelberg University)  
Modular Method Development for Gold(I)-Catalyzed Synthesis of Functionalized Azulene-Based Heterocycles

**[PB-103]**

Atsushi Tahara, Kanta Fukagawa, Raku Ueno, Takayuki Doi (Tohoku University)  
Iridium-Catalyzed Linear-Selective Dimerization of Styrene Derivatives

**[PB-104]\***

Hiroki Motoyama, Fumitoshi Shibahara (Gifu University)  
Steric and electronic substituent effects of Pd-imidazo[1,5-*a*]pyrid-3-ylidene complexes on cross-coupling reactions

**[PB-105]\***

Kazuki Wada, Shunsuke Kudo, Shunsuke Furukawa, Masaichi Saito (Saitama University)  
Double C–C Bond Formation without Catalysts Using a Stannacyclopentadienylidene

**[PB-106]\***

Annika Schmidt, Carsten Strohmann (TU Dortmund University)  
Organometallic Chemistry Directed Towards Anionic Polymerization

**[PB-107]\***

Clara Mauclaire, Albert Poater, Jean-Luc Renaud (Sorbonne Université)  
Blue Light Induced Iron-Catalyzed Alkylation of Ketones with Alcohols

**[PB-108]\***

Keitaro Kato, Shintaro Okumura, Naoki Ishida (Kyoto University)  
Photo-Induced C–H Methoxylation of *N*-Alkylamides

**[PB-109]**

Masaya Sakamoto, Tomonori Inoue, Ken Tanaka (Institute of Science Tokyo)  
Iridium-Catalyzed, 1,3-Azole-Directed C(sp<sup>3</sup>)–H Borylation with Pinacolborane

**[PB-110]\***

Beata M. Moritz, Paul E. Schneider, Carsten Strohmann (TU Dortmund University)  
Planar Chiral Ferrocenes as Key Compounds for Asymmetric Catalysis

**[PB-111]**

Wei-Feng Zheng, Min Hou, Zhongxing Huang (The University of Hong Kong)  
Asymmetric decarboxylation enabled by an organometallic proton shuttle

**[PB-112]\***

Eitaro Ueda, Tetsuro Kusamoto, Hayato Tsurugi (The University of Osaka)  
Allylic Hydrogen Atom Abstraction by  $\alpha$ -Diimine-Ligated Bis(imido)molybdenum Complexes under Blue LED Irradiation

**[PB-113]\***

Kenichi Yoshimura, Takeshi Yasui, Yoshihiko Yamamoto (Nagoya University)  
Ruthenium-catalyzed [2 + 2 + 2] Cycloaddition of 1,6-Diynes with *Ex-situ* Generated Acetylene, Leading to Spirocyclic Phthalans

**[PB-114]\***

Semere W. Kahssay, Yasmine M. Abdel Aziz, Marwa Elewa, Mohamed S. H. Salem, Shinobu Takizawa (The University of Osaka)

Diastereoselective Synthesis and Applications of Cobalt(III) Complexes in Catalysis and Medicinal Chemistry

**[PB-115]\***

Bingcheng Wang, Lingtao Wang, Jiale Ying, Zhan Lu (Zhejiang University)

Steric-Controlled Cobalt-Catalyzed Regiodivergent Dehydrogenative Silylation of Alkenes

**[PB-116]\***

Ryohei Okuda, Takanori Shimada, Kento Ishida, Yohei, Ogiwara, Norio, Sakai (Tokyo University of Science)

Zirconocene catalyzed formal hydroboration of unsaturated hydrocarbons using a hydrosilane and boron trifluoride

**[PB-117]\***

Ryo Hataguchi, Yusuke Yoto, Naoko Takenaga, Ravi Kumar, Toshifumi Dohi (Ritsumeikan University)

Copper-Catalyzed Synthesis of Sulfonium Salts with Mesityl Iodonium Salts

**[PB-118]\***

Carla A. Esslinger, Stefan G. Latzel, Fritz E. Kühn (Technical University of Munich)

Tailored Iron *N*-Heterocyclic Carbene Complexes: Versatile Catalysts for Selective Oxidation Reactions

**[PB-119]\***

Guanwen Hu, Yangjian Quan (The Hong Kong University of Science and Technology)

Nickel Catalyzed Diastereoselective Hydroboration of Olefins with a Vinylborane Reagent

**[PB-120]\***

Yuto Arai, Shunsuke Ogura, Akira Matsumoto, Chao Wang, Keiichi Hirano (Kanazawa University)

$\alpha$ -Selective C–H Alkylation of  $\alpha$ -Silyl Alcohols using Phosphonium Ylides as Hydrogen Atom Transfer Catalysts

**[PB-121]**

Haruka Matsui, Yuki Kojima, Koji Hirano (The University of Osaka)

Copper-Catalyzed Regio- and Enantioselective Hydrofunctionalizations of Trifluoromethylselenoalkenes

**[PB-122]\***

Taiyo Yamamoto, Ken Yamanomoto, Kohei Endo (Tokyo University of Science)

Creation of Chiral All-Carbon Quaternary Center via Asymmetric Conjugate Addition of Organoaluminum Reagents to  $\alpha'$ -OH enones

**[PB-123]\***

Luca Vedani, Andrij M. Borys, Eva Hevia (University of Bern)

Exploiting Coordination Effects in Nickelate Complexes for Cross-Coupling Challenging Electrophiles

**[PB-124]\***

Kyohei Mikita, Chihiro Maruya, Kaito Yagi, Takeru Torigoe, Toshimichi Ohmura (Kyoto Institute of Technology)

Synthesis of Five- to Seven-Membered *N*-Heterocycles by Iridium-Catalyzed  $C(sp^3)$ –H/N–H Coupling

**[PB-125]\***

Meng Deyuan, Jaesook Yun (Sungkyunkwan University)

Fe-catalyzed Regioselective  $Csp^3$ – $Csp^3$  Coupling with Vinyl Arenes and Benzyl Tosylates

**[PB-126]\***

Paul E. Schneider, Beata M. Moritz, Carsten Strohmann (TU Dortmund University)

Facile Synthesis of Planar Chiral Ferrocenes as Key Compounds for Asymmetrically Controlled Processes

**[PB-127]\***

Kanata Tanaka, Shunya Oishi, Koki Kawamoto, Mizuki Tada, W. M. C Sameera, Ryo Takahata, Toshiharu Teranishi, Soichi Kikkawa, Seiji Yamazoe, Takuya Shiga, Masayuki Nihei, Tatsuhisa Kato, Roger E. Cramer, Zihan Zhang, Karsten Meyer, Hitoshi Izu, Tatsuya Higaki, Yasuhiro Ohki (Kyoto University)  
A 1.2 nm Icosahedral 55-Atom Iron Hydride Cluster

**[PB-128]\***

Yusaku Uemura, Hiroki Murata, Kazuhiko Semba, Tetsuaki Fujihara (Kyoto University)  
Synthesis of sulfonylated multi-substituted allylboronates through the sulfonylation of cyclic allylboronates with sulfur dioxide

**[PB-129]\***

Yusuke Oshima, Hiroshi Naka (Kyoto University)  
Synthesis and Catalytic Applications of Ester-Functionalized Cyclopentadienyl Iridium(III) Complexes

**[PB-130]**

Jakub Szylinc, Aleksandra Szymańska, Stepan Kment, Radek Zbořil, Jędrzej Walkowiak (Adam Mickiewicz University)  
Synthesis of boron-functionalized enynes *via* borylation reactions

**[PB-131]\***

Dongran Wu, Takahiro Doba, Masaharu Nakamura (Kyoto University)  
Iron-catalyzed C–N coupling reaction using polycyclic aromatic hydrocarbon as a redox mediator

**[PB-132]\***

Ahhyeon Choi, Hyeonseo Kim, Hyunwoo Kim (POSTECH)  
Electrocatalytic access to *cis*-aziridines through diastereoselective intramolecular hydroamination

**[PB-133]\***

Na Jin, Alessandra Logallo, Eva Hevia (University of Bern)  
Regioselective Direct Cobaltation of *N*-heterocyclic Molecules Mediated by a Super Basic Co(II) Amide

**[PB-134]**

Toru Hashimoto, Keisuke Shiota, Kei Funatsu, Yoshitaka Yamaguchi (Tokyo University of Technology)  
Cross-Coupling Reactions of Aryl Halides with Primary and Secondary Aliphatic Alcohols Catalyzed by a Nickel-Pincer Complex

**[PB-135]\***

Tomohiro Segawa, Hiroaki Matoba, Makoto Yoritate, Ken-ichi Yamada, Go Hirai (Kyushu University)  
Collective synthesis of prostanes

**[PB-136]\***

Yuta Matsumoto, Tetsuya Yamamoto (Tokyo Denki University)  
Synthesis and activity of Acenaphthoimidazole-type NHC-Coordinated Cyclometalated Palladium Complexes

**[PB-137]\***

Taiga Takeda, Koji Kubota, Hajime Ito (Hokkaido University)  
Mechanochemistry enabling extremely fast Sharpless asymmetric dihydroxylation

**[PB-138]\***

Sergio Barbeira-Arán, Andrés M. Álvarez-Constantino, Pol Martínez-Balart, Álvaro Velasco-Rubio, Martín Fañanás-Mastral (Universidade de Santiago de Compostela)  
C–H Allylation of Methane and other Gaseous Alkanes

**[PB-139]\***

Boško Vrbica, Zhenzhong Zhang, Tomoya Fukui, Yoshiaki Shoji, Takanori Fukushima, Yoichi M. A. Yamada (RIKEN)  
A Green and Efficient Approach to Solid-State Cross-Coupling under Static Conditions

**[PB-140]\***

Ryusei Ohkura, Yasuyo Tahara-Tezuka, Daisuke Yokogawa, Cathleen M. Crudden, Masakazu Nambo (Nagoya University)

Desulfonylative Suzuki–Miyaura Cross-Coupling of Unactivated Aryl Sulfones through Ni Catalysis

**[PB-141]\***

Yasuhiro Katayama, Shintaro Ishida, Takeaki Iwamoto (Tohoku University)

Reactions of Phosphinyl and Bismuthinyl Radicals toward Alkynes: Bisphosphination and Hydrobismuthation

**[PB-142]\***

Satoshi Ogawa, Hiroki Morita, Namiki Takenaka, Yu-I Hsu, Hiroshi Uyama, Mamoru Tobisu (The University of Osaka)

Controlled Degradation of Chemically Stable Polymers via Directing Group-Assisted Catalysis

**[PB-143]\***

Stefan G. Latzel, Carla A. Esslinger, Fritz E. Kühn (Technical University of Munich)

Open Chain Iron NHC-Complexes in Homogeneous Oxidation Catalysis

**[PB-144]\***

Xiaoxi Zhou, Shaowei Hu, Qingde Zhuo, Gen Luo, Tongtong Liu, Takanori Shima, Zhaomin Hou (RIKEN)

Denitrogenative Carbon Skeleton Cleavage and Reorganization of Pyridines by a Trinuclear Titanium Polyhydride Complex

**[PB-145]\***

Patricia Gómez Roibás, Martín Fañanás-Mastral (Universidade de Santiago de Compostela)

Regio- and Enantioselective allylboration of 1,3-dienes using bimetallic Cu/Pd catalysis

**[PB-146]\***

Kohtarō Sugimoto, Yuji Nishii, Koji Hirano (The University of Osaka)

Carborane-sulfide-catalyzed multiple halogenation of cyclic meta-phenylene derivatives

**[PB-147]\***

Kotoko Makino, Kohei Mori, Shoichi Kiryu, Taku Miyazawa, Yuhei Kumagai, Kosuke Higashida, Masahiro Kojima, Tatsuhiko Yoshino, Shigeki Matsunaga (Hokkaido University)

Chiral Paddle-wheel Diruthenium Complex for Catalytic Enantioselective Intermolecular Benzylidene C–H Amination

**[PB-148]\***

Maho Morimura, Honoka Mori, Ayana Okada, Hiroyoshi Masuda, Iwao Hachiya (Mie University)

Synthesis of Multi-Substituted  $\beta$ -Carbolin-1-ones via Iridium-Catalyzed Intramolecular C–H/N–H Coupling

**[PB-149]**

Wenzhi Zhu, Wanbin Zhang (Shanghai Jiao Tong University)

Pd/Cu-Cocatalyzed Enantio- and Diastereodivergent Wacker-Type Dicarbofunctionalization of Unactivated Alkenes

**[PB-150]\***

Chunxiao Shan, Junnian Wei, Zhenfeng Xi (Peking University)

Synthesis of Nitriles from Dinitrogen via N-Atom Transfer on Rhenium Nitride Complex

**[PB-151]**

Sayori Kiyota, Kohei Kamakura, Masafumi Hirano (Tokyo University of Agriculture and Technology)

Halogen-Free Synthesis of Donor-Acceptor Type Conjugated Polymers by Alternating Addition Polymerization

**[PB-152]\***

Yunosuke Takekawa, Lilian Geniller, Kazunori Nagao, Hirohisa Ohmiya (Kyoto University)

Markovnikov-Selective Hydroaminoalkylation of Alkenes via Dual Photoredox/Cobalt Catalysis

**[PB-153]\***

Kwai Wun Cheng, Takashi Kurogi, Hideki Yorimitsu (Kyoto University)  
Iron-Catalyzed Ring-Opening Reaction of Furans for Aromatic Metamorphosis

**[PB-154]\***

Masaki Takada, Masaaki Nakamoto, Takumi Tsushima, Hiroto Yoshida (Hiroshima University)  
Copper-catalyzed Internal-selective Carboboration of Challenging Terminal Alkynes

**[PB-155]**

Guanwen Hu, Peiqi Zhang, Xinmou Wang, Chunteng Wan, Yiyi Fu, Wa Hung Leung, Zhenyang Lin, Yangjian Quan (The Hong Kong University of Science and Technology)  
Computational study in Nickel Catalyzed Diastereoselective Hydroboration of Olefins with a Vinylborane Reagent

**[PB-156]\***

Yusuke Tokura, Yutaka Mondori, Yoichi Hoshimoto (The University of Osaka)  
Selective Functionalization of *meta*-C–H Bonds in Arenes with Ni(0) Complexes and Triarylboranes

**[PB-157]**

Keita Komine, Taiga Iwanaga, Satoshi Kishimoto, Hayato Fukuda, Jun Ishihara (Nagasaki University)  
Total Syntheses of (+)-Penicibilaenes A and B Based on Pd-Mediated Deracemization to Construct All-Carbon Quaternary Stereogenic Center

**[PB-158]\***

Yuki Shichi, Hiroshi Naka (Kyoto University)  
Platinum-Catalyzed Transfer Hydration of Nitriles

**[PB-159]\***

Joséphine-Agnès Kourouma, Olivier Buriez, Isabelle Florent, Lukas Montejo, Elisabeth Mouray, Sébastien Pомel, Yvan Six (École Polytechnique)  
Aminium Radicals for the Discovery of New Antiparasitic Endoperoxides

**[PB-160]\***

Pablo Domingo-Legarda, Samuel E. Neale, Ambre Carpentier, Claire L. McMullin, Michael Findlay, Igor Larrosa, Stuart A. Macgregor (University of Manchester)  
The Mechanism of Ru-Catalyzed Directed C–H Arylation of Arenes: the Key Role of Bis-Cyclometalated Intermediates

**[PB-161]\***

Yoshiki Okamoto, Miki Inagaki, Takeru Torigoe, Toshimichi Ohmura (Kyoto Institute of Technology)  
Diphenylsilylene Transfer to 2-( $\beta$ -styryl)benzofurans for the Synthesis of Silicon-Containing Polycyclic Compounds

**[PB-162]\***

Kazuki Tomota, Masaaki Nakamoto, Takumi Tsushima, Hiroto Yoshida (Hiroshima University)  
Weak Base-Promoted Direct Suzuki–Miyaura Cross-Coupling of *dan*-Substituted Arylboron Compounds

**[PB-163]\***

Margaux Hanard, Jean-Luc Renaud (Sorbonne Université)  
Red-Light Induced Thiol-ene and Thiol-yne Reaction. Application to Bioconjugation of Cysteine and some Peptides

**[PB-164]\***

Swati Jain, M Ramu Yadav (Indian Institute of Technology Delhi)  
Stereoselective Transformations of *gem*-Difluoroallenes to Access CF<sub>3</sub>-Substituted Alkenes, Arylenes, Enynes, and Difluoroalkene Derivatives

**[PB-165]\***

Shuto Wakita, Sota Tamaki, Tetsuro Kusamoto, Hayato Tsurugi (The University of Osaka)

Chemoselective Decarboxylative Alkylation of Carboxylic Acids with Alkenes Catalyzed by Fe<sub>3</sub> Cluster under Blue LED Irradiation

**[PB-166]\***

Kairi Yamashiro, Kohei Fujii, Yu Sato, Koji Masutomi, Ryota Shimotsukue, Yuki Nagashima, Ken Tanaka (Institute of Science Tokyo)

Enantioselective Synthesis of Tetrahydroindole Derivatives by Rh-Catalyzed [2+2+2] Cycloaddition

**[PB-167]\***

Ren Miyasaka, Takayoshi Arai (Chiba University)

Synthesis of stereoselective spirocyclopropoxyindole derivatives using optically active Imidazolidine-derived NCN pincer palladium complexes

**[PB-168]\***

Martín Piñeiro-Suárez, Martín Fañanás-Mastral (Universidade de Santiago de Compostela)

Overcoming Regioselectivity Challenges in Borylative Allyl-Allyl Cross-Coupling

**[PB-169]\***

Péter Pál Kalapos, Peter Chen (ETH Zürich)

Reactivity of a Rhenium(VII)-Methylidyne Complex: Protonation and Olefin Metathesis

**[PB-170]\***

Shurika Innami, Takashi Yamazaki, Ken Tanaka (Institute of Science Tokyo)

Rh-Catalyzed [2+2+2] Cycloaddition, Controlling Alkyne Reactivity with Hexafluoroisopropanol

**[PB-171]**

Satoshi Ueno, Yuya Kogure, Kohei Hatakeyama, Yuki Yamada, Takahiro Arai (Tokyo University of Technology)

Ruthenium-Catalyzed Cross-Coupling of Ketones as Alkenyl Electrophiles with Organoborons

**[PB-172]\***

Sakura Takahashi, Mamoru Tobisu, Yusuke Ano (The University of Osaka)

Ligand-Controlled Regiodivergent Cycloaddition of Arylalkynes with Norbornene

**[PB-173]\***

Kohei Sudo, Yoshiaki Tanabe, Yoshiaki Nishibayashi (The University of Tokyo)

Preparation and catalytic activity of novel iron-dinitrogen complexes bearing *N*-heterocyclic carbene-based PCP-type pincer ligands

**[PB-174]\***

Miu Takiguchi, Airi Yamate, Toshiyuki Moriuchi (Osaka Metropolitan University)

*N*-Formylation of Amines Using Dimethyl Sulfoxide as a Formyl Source

**[PB-175]\***

Hugo Jiménez-Cristóbal, Akshay M. Nair, Martín Fañanás-Mastral (Universidade de Santiago de Compostela)

Expanding the Power of Nickel: Advancing Regioselective Functionalization of Gaseous Alkanes via Dual Nickel/Photoredox Catalysis

**[PB-176]\***

Masakazu Tanigawa, Taiki Hashimoto, Yoichi Hoshimoto (The University of Osaka)

Triarylborane-Catalyzed Solvent-Free Hydrogenation of Indoles

**[PB-177]\***

Mizuki Kadota, King Hung Nigel Tang, Takanori Shibata (Waseda University)

Chain-Walking Strategy for Ir-Catalyzed C–H Alkylation of Anilides Leading to Branch- and Enantioselective C–C Bond Formation

**[PB-178]\***

Wonbeen Lee, Jeongmin Nam, Eun Joo Kang (Kyung Hee University)

Green-Light Driven Fe(btz)<sub>3</sub> Photocatalysis for the Radical Cationic [3+2] Cycloaddition Reaction

**[PB-179]\***

Mao Maeda, Masaaki Nakamoto, Takumi Tsushima, Hiroto Yoshida (Hiroshima University)

Factors Contributing to Regioselectivity of Copper-catalyzed Hydroboration of Alkynes: Effect of Alkyl Substituents of B(pin)-type Five-membered Boronates

**[PB-180]**

Kenji Sugimoto, Shuto Kosuge, Yoshihiro Kiraku, Kiyoshi Tsuge, Yuji Matsuya (Kyoto Prefectural University)

Three-component azepine synthesis by Au/Mg orthogonal relay catalysis

**[PB-181]\***

Gillian McArthur, Jamie H. Docherty, Mishra Deepak Hareram, Marco Simonetti, Iñigo J. Vitorica-Yrezabal, James J. Douglas, Igor Larrosa (University of Manchester)

An Air- and Moisture-Stable Ruthenium Precatalyst for Diverse Reactivity

**[PB-182]\***

Ibuki Satoh, Kazuhiko Semba, Jun-ya Hasegawa, Tetsuaki Fujihara (Kyoto University)

Synthesis and Steric Effect of Periphery-Arranged Bulky Phosphites in Cu-Catalyzed Hydrosilylation of Ketones

**[PB-183]**

Takatoki Mizuno, Taro Udagawa, Masahiro Sai (Shimane University)

Chiral Potassium Base-Catalyzed Asymmetric Intramolecular Oxa-Michael Addition of  $\epsilon$ - and  $\zeta$ -Hydroxy- $\alpha,\beta$ -Unsaturated Esters

**[PB-184]\***

Yuki Ando, Yuki Kubota, Taiga Komiya, Kazuhiro Morisaki, Yoshihiro Sato (Hokkaido University)

Nickel(0)-Catalyzed Reductive Cyclization between Alkyne and Ester in the Presence of Silane

**[PB-185]**

Je Uk Kim, Ji Yeon Park, Donghoe Jung, Sumin Lee (Konkuk University)

Photocatalytic deaminative nucleophilic substitution

**[PB-186]\***

Kohei Miyamoto, Kazuhiro Morisaki, Yoshihiro Sato (Hokkaido University)

Zn/F Carbenoids: Preparation, Stability, Structure, and Application to Nucleophilic Monofluoroalkylation

**[PB-187]\***

Kento Okabayashi, Masumi Itazaki, Toshiyuki Moriuchi (Osaka Metropolitan University)

Dehydroxylative Homocoupling Reaction of Alcohols using Iron/L-ascorbic Acid System

**[PB-188]\***

Manato Moriguchi, Yuji Koga, Kouki Matsubara, Tsutomu Takashima, Yuichiro Tago (Fukuoka University)

Catalytic Performance of A Phosphine Ligand with An Triisobutylene-Derived Alkyl Substituent

**[PB-189]\***

Kaichi Ikuta, Shoko Koga, Yuji Koga, Kouki Matsubara (Fukuoka University)

Manganese Phenoxyimine Complexes: Structure and Catalytic Activity in Water-Promoted Hydrosilylation of Aromatic Aldehydes and Ketones

**[PB-190]\***

Hayato Tanikawa, Rina Hashimoto, Nobuyuki Komine, Masafumi Hirano (Tokyo University of Agriculture and Technology)

Enantioselective Synthesis of Chiral Silyl Skipped Dienes and Their Application to Lophotoxin Precursors

**[PB-191]\***

Shweta Choudhary, Stefan Flesch, Christopher S. Horbaczewskyj, Ian J. S. Fairlamb, Neil Hunt, Jason M. Lynam (University of York)  
Light-Driven Manganese-Assisted Carbonylation of Aryl Iodides

**[PB-192]\***

S. Bonfante, C. Lorber, J. M. Lynam, A. Simonneau, J. M. Slattery (University of York)  
Metallomimetic C–F Activation Catalysis by Simple Phosphines

**[PB-193]\***

Amit Pal, Sandip Bag, Sariga M. V., Fathima Niloofar, Anshuman Bera, Sivarajana Reddy Vennapusa, Basudev Sahoo (IISER Thiruvananthapuram)  
Heavier Dihydropyridine (DHP) Chalcogenol Esters in Hydrothio(seleno)carbonylation Enabled by Metallaphotoredox Catalysis

**[PB-194]**

Tomohiro Iwai, Jun Terao (The University of Tokyo)  
Insulated Conjugated Transition-Metal Catalysts for Photo-/Electroinduced Reactions

**[PB-195]**

W. M. C. Sameera, Nishshanka M. Lakshan, Pabasara Ediriweera, Kazuki Tanifugi, Yasuhiro Ohki (Chalmers University of Technology)  
Activating Inert Molecules Using  $\text{Mo}_3\text{S}_4\text{M}$  Cubic Clusters (M = Fe, Co): A Computational Study

**[PB-196]\***

Hatice Seher Korkmaz, Anja Hoffmann-Röder, Paul Knochel (Ludwig-Maximilians University of Munich)  
Selective Synthesis of Polyhalogenated Isoquinoline Building Blocks for the Preparation of Polyfunctionalised Isoquinolines

**[PB-197]**

Giancarlo Terraneo (Politecnico di Milano)  
Crystallographic Insights into  $\sigma$ -Hole Catalysis: Fluorination as a Tool for Activation

**[PB-198]**

Shota Nakagawa, Nene Murata, Kento Hironaka, Yoshikazu Horino (Chitose Institute of Science and Technology)  
Gold(I)-Catalyzed Tandem Cyclopropanation and Ring-Expansion Reaction of Indenes for the Stereoselective Synthesis of *cis*-2-Vinyl Naphthalenes

**[PB-199]\***

Atsuhisa Mitsui, Kazunori Nagao, Hirohisa Ohmiya (Kyoto University)  
Synthetic Reactions using (Boryl)(silyl)iminomethanes

**[PB-200]\* *Withdrawn***

Hyeontaek Nam, Seji Jang, Sangwon Seo (DGIST)  
~~Regioselective Access to 1,1-Disubstituted Alkene via NiH-Catalyzed Alkyne Hydroalkylation~~

**[PB-201]\***

Sujith K. P., Anna Lee (Jeonbuk National University)  
Stereodivergent Synthesis of (*E*)- and (*Z*)-Vinyl Sulfones via Hydrosulfonylation of Alkynes

**[PB-202]\***

Yu Sato, Ken Tanaka (Institute of Science Tokyo)  
Enantio- and Diastereoselective Synthesis of Axially Chiral Diaryl Ethers by Rh-Catalyzed [2+2+2] Cycloaddition

**[PB-203]**

Zhenzhong Zhang, Heeyoel Baek, Eman Soliman, Aya Ohno, Yoichi M. A. Yamada (RIKEN)  
Etched Silicon Powder-Supported Palladium as a Highly Durable Catalyst for Continuous Flow Hydrogenation and Reductive Alkylation

**[PB-204]\***

Naveen Sihag, M. Ramu Yadav (Indian Institute of Technology Delhi)

Pd-Catalyzed Enantioselective Reductive Heck Reaction of *mono*-Fluoro, *gem*-Difluoro, and Trifluoromethyl Tethered-Alkenes

**[PB-205]\***

Yinwei Bao, Zhan Lu (Zhejiang University)

Enantioconvergent Hydroboration of *E/Z*-Mixed Trisubstituted Alkenes

**[PB-206]\***

Chenggong Zheng, Jiyong Liu, Yuwen Wang, Yongtao Wang, Haoran Li, Zhan Lu (Zhejiang University)

Spin Manipulation of Chiral Cobalt Complexes

**[PB-207]\***

Jakub Robaszkiewicz, Łukasz Banach, Maciej Zaranek, Piotr Pawluć (Adam Mickiewicz University)

Beauty lies in simplicity: Suzuki cross-coupling catalysed by cobalt complex with monodentate N-donor ligands