Program Overview

Special Keynote Lecture

<<u>SKL</u>> Muon Spin Resonance Spectroscopy of Muoniated Radicals of Various Phosphoruscontaining Rings <u>Robert West</u>, Paul W. Percival, Kerim Samedov, Charles MacDonald, and Christopher Russel

Plenary Lectures

- <<u>PL01</u>> The Magic of Five-fold Symmetry <u>Manfred Scheer</u>, Barbara Krämer, Eugenia Peresypkina, and Sebastian Heinl
- <<u>PL02</u>> Magnesium(I) Dimers 10 Years on: Universal Reductants for the Synthetic Chemist? <u>Cameron Jones</u>
- <<u>PL03</u>> Unsaturated Chains, Rings and Clusters of Silicon <u>David Scheschkewitz</u>
- <<u>PL04</u>> Pnictogen Centered Cyclic Biradicals: Switching Chemical Reactions and Activating Small Molecules <u>Axel Schulz</u>
- <<u>PL05</u>> Silicon Clusters: Synthesis, Structures, and Properties <u>Soichiro Kyushin</u>

Invited Lectures

<<u>IL01</u>> Reactions of a Cyclic (Alkyl)(amino)silylene and Its Derivatives <u>Takeaki Iwamoto</u> <<u>IL02</u>> Using Anionic *N*-Heterocyclic Olefins to Access New Cyclic Bonding Motifs in the Main Group

Eric Rivard, Paul Lummis, Matthew Roy, Emanuel Hupf, Felix Kaiser, and Fritz Kühn

- <<u>IL03</u>> Advanced Synthetic Approaches to Acyclic and Cyclic Polyphosphorus Compounds Robin Schoemaker, Clemens Taube, Kai Schwedtmann, Felix Hennersdorf, David Harting, and Jan J. Weigand
- <<u>IL04</u>> Inorganic Rings and Clusters Comprising Heavy Element Atoms <u>Stefanie Dehnen</u>
- <<u>IL05</u>> Synthesis and Characterization of a New Form of Silicon Cage Compounds <u>Atsushi Nakajima</u>
- <<u>IL06</u>> **1,2-Oxaphosphetane Complexes: Synthesis, Reactions and Perspectives** Andreas W. Kyri, A. Espinosa Ferao, and <u>Rainer Streubel</u>
- <<u>IL07</u>> Synthesis of A Cyclic 1,3-Digerma-2-silaallene: A Cyclic Silylone <u>Takahiro Sasamori</u>
- <<u>IL08</u>> Reactions of a Silylyne Complex with Alkynes and Azides: Formation of Four- and Three-Membered-Ring Complexes <u>Hisako Hashimoto</u>, Kohei Watanabe, Takashi Yoshimoto, Naoki Hayakawa, Tsukasa Matsuo, and Hiromi Tobita
- <<u>IL09</u>> Divalent Bismuthenium and Stibenium Ions: Carbene Analogs with a Positive Charge Jens Beckmann
- <<u>IL10</u>> Metalloradicals and Metal-medidated Main Group Radicals <u>Xinping Wang</u>, Gengwen Tan, Wenqing Wang, Yuanting Su, and Tao Li
- <<u>IL11</u>> Molecular Metal-Chalcogenides for Bio-inspired Nitrogen Activation <u>Yasuhiro Ohki</u>
- <<u>IL12</u>> Insertion and Addition Chemistry of Silylated Germylenes Małgorzata Walewska, Judith Baumgartner, and <u>Christoph Marschner</u>

- <<u>IL13</u>> Multiple-bonded Aluminium Complexes: Reactive Species for Novel Ring Formation <u>Shigeyoshi Inoue</u>
- <<u>IL14</u>> The Reactivity of iso-Chalcogenazole *N*-Oxides and their Supramolecular Aggregates <u>Ignacio Vargas-Baca</u> and Peter C. Ho
- <<u>IL15</u>> Double Aromaticity in Polyselanyl-substituted Benzene Dications Arising from σ- and π-Rings <u>Masaichi Saito</u>

Oral Presentation Program

- <<u>A01</u>> Synthesis and Reactivity of an Amido-substituted Silicon Ring Compound Felicitas Lips
- <<u>A02</u>> Heavy Cyclobutadienes, E₄(EMind)₄ (E = Si and Ge) <u>Tsukasa Matsuo</u>, Yasuyuki Numata, Naoki Hayakawa, and Daisuke Hashizume
- <<u>A03</u>> Aryltin Hydrides: Synthons for Oligotin Rings, Cages and Elementoid Clusters Beate G. Steller and <u>Roland C. Fischer</u>
- <<u>A04</u>> Cages with Metallic Main-group Elements and Applications <u>Michael Veith</u>, Awadelkareem Ali, Andreas Walgenbach, and Carsten Bubel
- <<u>A05</u>> Tetrahedanes and Cyclobutadienes Linked a π-System: Diradical Character of *para*-Phenylene-linked Cyclobutadiene <u>Masaaki Nakamoto</u>, Yuzuru Kobayashi, Kenta Okaniwa, and Akira Sekiguchi
- <<u>A06</u>> Silylene in C–F, C–H, and B–H Bond Activations and Subsequent Catalytic Applications <u>V. S. V. S. N. Swamy</u> and Sakya S. Sen
- <<u>A07</u>> Heteroldianions as Precursors for Unusual Silicon and Germanium Compounds Zhaowen Dong, Crispin Reinhold, Patrik Tholen, Lena Albers, and <u>Thomas Müller</u>

- <<u>A08</u>> Three-coordinated Cyclic Chlorogermylenes and -stannylenes Supported by *N*,*N*^{*}-Chelating Ligands: Synthesis and Property <u>Norio Nakata</u>, Shintaro Takahashi, Narimi Hosoda, Kazuki Nakaya, and Akihiko Ishii
- <<u>A09</u>> Based-Stabilized Silicon(I) Dimer for Catalytic C–C Bond Formation Cheuk-Wai So
- <<u>A10</u>> Mechanochemical Syntheses of Cyclodiphosphazane-based Frameworks <u>Ving Sim</u> and Felipe García
- <<u>A11</u>> Disilene vs Silylsilylene: Substituted Analogues of the Si₂H₄ Rearrangement Martin W. Stanford, Gary S. Nichol, and Michael J. Cowley
- <<u>A12</u>> Synthesis and Structure of a Stable Dithiagermirane <u>Fumiaki Suzuki</u> and Mao Minoura
- <<u>A13</u>> Limitations of Steric Bulk: Towards Phospha-Germynes and Phospha-Stannynes <u>Alexander Hinz</u> and Jose M. Goicoechea
- <<u>A14</u>> Cyclic and Linear Germoxane Formation Catalyzed by an Iron Complex <u>Hiroshi Nakazawa</u>, Masahiro Kamitani, and Masumi Itazaki
- <<u>A15</u>> B–H Bond Activation by an Amidinate-Stabilized Amidosilylene: Non-Innocent Amidinate Ligand Sabrina Khoo and Cheuk-Wai So
- <<u>A16</u>> Synthesis of Silacyclic Compounds Utilizing Cumulated Double-Bond Compounds Activated by In-situ Generated Silyl Cations <u>Takayuki Kawashima</u> and Hidekazu Arii
- <<u>A17</u>> Radicals and Tetrylenes Based on a [3]Ferrocenophane Scaffold with Functional PEP Bridge (E = group 13, 14, 15 element) Denis Kargin, Stefan Isenberg, Zsolt Kelemen, and <u>Rudolf Pietschnig</u>

- <<u>A18</u>> Ir(I)-Mediated Bond Activation of E–F Bond (E = Si, Ge, Sn): A Key Intermediate Bearing a Z-type Interaction <u>Hajime Kameo</u>, Hiroshi Nakazawa, and Hiroyuki Matsuzaka
- <<u>A19</u>> From Aryl-substituted Group 14 Rings and Hydrides Towards Energy Storage Frank Uhlig
- <<u>A21</u>> Electrochemical and Spectroelectrochemical Investigations of Sulfur-Nitrogen Chains and Rings <u>René T. Boeré</u> and Nathan D. D. Hill
- <<u>A22</u>> Deltaarenes; Novel Sulfur-containing Macrocyclic Compounds <u>Akio Kamimura</u>, Kazuki Ikeda, and Takuji Kawamoto
- $<\underline{A23}>$ Mono- and Ditellurophenes Containing π -Conjugated Backbones Emanuel Hupf, Robert McDonald, Michael J. Ferguson, and Eric Rivard
- <<u>A24</u>> Physical Modification of Carbon Nanotubes with Dendrimer Having Mercaptoundecahydrododecaborates (Na₂B₁₂H₁₁S) at Terminals Masahiro Yamagami, Tomoyuki Tajima, Hideaki Miyake, Kango Ishimoto, and <u>Yutaka</u> <u>Takaguchi</u>
- <<u>A25</u>> Cross-conjugated and Heterofulvenoid Phospha- and Arsaalkene Motifs Muhammad Anwar Shameem, Daniel Morales Salazar, Joshua Green, and <u>Andreas Orthaber</u>
- <<u>A26</u>> **Design and Synthesis of Tellurophenes to Advance Optoelectronic Applications** Christina A. Braun, Michael J. Ferguson, Robert McDonald, Gang He, and Eric Rivard
- <<u>B01</u>> Reversible B₂C₂ Four-Membered Ring Formation by Dimerization of Boryl- and Amino-substituted Acetylenes Katsunori Suzuki, Ryo Kitamura, and Makoto Yamashita
- <<u>B02</u>> Cleavage of Very Strong Bonds by Low-valent Group 13 Compounds Georgii Nikonov

- <<u>B03</u>> Chemistry of Low Valance Phosphorus, Silicon and Aluminum <u>Herbert W. Roesky</u>
- <<u>B04</u>> Gold(I) Facilitated Formation of a Heterocyclic 5-Membered Ring from Tri(tertbutyl)azadiboriridine and Isonitrile Rong Shang, Souta Saito, Yohsuke Yamamoto, and J. Oscar. C Jiminez-Halla
- <<u>B05</u>> Phosphaborenes Accessible Reagents for P–B Isosteres of Cyclobutene and Benzene Amy N. Price, Gary S. Nichol, and <u>Michael J. Cowley</u>
- <<u>B06</u>> Synthesis of a Phosphinoboronate Ester Bearing Fused Ring Structure <u>Naokazu Kano</u> and Nathan J. O'Brien
- <<u>B07</u>> **R'E'[C₄R₄] (E' = Group 13 or 15 element) Cages and Clusters** <u>Vladimir Ya. Lee</u>, Haruka Sugasawa, Kei Ota, Yuki Ito, Akira Sekiguchi, Olga A. Gapurenko, Ruslan M. Minyaev, and Vladimir I. Minkin
- <<u>B08</u>> Antiaromatic Dithieno-1,2-dihydro-1,2-diborin Splits Diatomic Hydrogen Takafumi Araki, <u>Masato Hirai</u>, Atsushi Wakamiya, Warren E. Piers, and Shigehiro Yamaguchi
- <<u>B09</u>> Construction of Extended π-Conjugated Systems by a Boron Cation <u>Naoki Tanaka</u>, Shoji Yoshiaki, and Takanori Fukushima
- <<u>B10</u>> Silicon/Boron Exchange Routes to Conjugated Cyclolinear Organoboron Polymers <u>Holger Helten</u>, Ozan Ayhan, Artur Lik, Thomas Lorenz, Merian Crumbach, Lars Fritze, and Nicolas A. Riensch
- <<u>B11</u>> Synthesis, Structures, and Reactivity of Dicarbondiphosphide Stabilized with *N*-Heterocyclic Carbenes <u>Zhongshu Li</u>
- <<u>B12</u>> Synthesis and Properties of Phosphinines Bearing Amine Substituents Noriyoshi Nagahora, Shoko Goto, Tomoko Kushida, Takahiro Inatomi, Kouki Matsubara, Kosei Shioji, and Kentaro Okuma

- <<u>B13</u>> Tricoordinate Phosphorus Species: From Lewis Superbases to Lewis Superacids Fabian Dielmann, Marius Wünsche, Paul Mehlmann, and Tim Witteler
- <<u>B14</u>> **Molecular Beryllium Fluorides** Dominik Naglav, Kevin Dzialkowski, Briac Tobey, and Stephan Schulz
- <<u>B15</u>> Beryllium Complexes with *O*-Donor Ligands <u>Magnus R. Buchner</u> and Matthias Müller
- <<u>B16</u>> Isolation of a Low-valent Silver(I) Cation using an Extremely Bulky *N*-Heterocyclic Carbene <u>Matthew M. D. Roy</u>, Michael J. Ferguson, Robert McDonald, and Eric Rivard
- <<u>B17</u>> Synthesis, Structure, and Reactions of Ruthenium Complexes Bearing PS₃-type Tripodal Tetradentate Ligand <u>Nobuhiro Takeda</u>, Shungo Tsuchiya, Ryo Mimaru, Natsuko Uekusa, and Masafumi Unno
- <<u>B18</u>> Reactivity and Regioselectivity of Novel Superbasic Mixtures Kathrin Louven, Lukas Brieger, Rebecca Scheel, and Carsten Strohmann
- <<u>B19</u>> Enhancing the Reactivity of Alkyllithium Reagents to Enable Hindered Deprotonation Reactions Lena Knauer and Carsten Strohmann
- <<u>B20</u>> Isolable Radicals of Main-Group Elements Gengwen Tan and Xinping Wang
- <<u>B21</u>> Novel Synthetic Approaches to Robust Main group Phosphazane Macrocycles Felipe Garcia
- <<u>B22</u>> Aluminium Hydrides Stabilised by Mixed NP Donor Ligands <u>Rosalyn L. Falconer</u>, Stephanie J. Urwin, Martin W. Stanford, and Michael J. Cowley
- <<u>B23</u>> Use of SNOOPy Ligand in Coordination Chemistry of Main Group Elements Kamila Bubnova, Iva Vranova, and <u>Ales Ruzicka</u>

- <<u>B24</u>> Illuminating the Origins of Phosphorescence in Bismoles and Bismole Polymers Sarah M. Parke, Emanuel Hupf, Gunwant Matharu, Michael P. Boone, Robert McDonald, Michael J. Ferguson, Gang He, and Eric Rivard
- <<u>B25</u>> Donor-Acceptor Stabilized Phosphanylboranes and Alanes: Stability and Reactivity Alexey Y. Timoshkin
- <B26> Reactivity of Low-valent Pnictogen Compounds with Unsaturated Bonds Formation of New Heterocycles <u>Libor Dostál</u>, Monika Kořenková, and Vít Kremláček

Poster Presentation Program

- <<u>PA01</u>> Mechanistic Studies on the Hydrodefluorination Reaction Performed by Chalcogenyl Stabilized Silyl Cations <u>Saskia Rathjen</u> and Thomas Müller
- <<u>PA02</u>> High Oxidation State Main Group Cations: Towards A New Class of Lewis Superacids <u>Paul A. Gray</u>, Riccardo Suter, Neil Burford, Brian O. Patrick, Robert McDonald, and Michael J. Ferguson
- <<u>PA03</u>> Chalcogenyl Stabilized Silyl Cations as Catalysts in Hydrosilylation Reactions of Nitriles <u>Sandra Künzler</u> and Thomas Müller
- <<u>PA04</u>> Synthesis and Structure of Hexa-coordinated Germanate Complex Having Phenanthrenedialkoxido Ligands <u>Tomoka Yoneda</u> and Masato Nanjo
- <<u>PA05</u>> Hollowed Triangulenes <u>Olga A. Gapurenko</u>, Ruslan M. Minyaev, and Vladimir I. Minkin
- <<u>PA06</u>> Synthesis, Structures, and Reactivity of Germa- and Stannabenzenyl Anions <u>Shiori Fujimori</u>, Yoshiyuki Mizuhata, and Norihiro Tokitoh

- <<u>PA07</u>> Synthesis, Characterization, and Reactivity of Diaryltetrylenes, (Rind)₂E: (E = Si, Ge, Sn, and Pb)
 <u>Shigeaki Konaka</u>, Yasuyuki Numata, Ryoma Ohno, Naoki Hayakawa, Tatsuto Morimoto, Tomoharu Tanikawa, Daisuke Hashizume, and Tsukasa Matsuo
- <<u>PA08</u>> Reactions of Siloxanediols and a Lewis Acid Stabilized Silylene towards Water <u>Philipp Roesch</u> and Thomas Braun
- <<u>PA09</u>> NHC-stabilized Silyliumylidene Ions and Their Coordination Chemistry <u>Philipp Frisch</u> and Shigeyoshi Inoue
- <<u>PA10</u>> Cobaltosilylene with Rhombic Si₂Co₂ Ring: Synthesis and Catalysis <u>Sabrina Khoo</u> and Cheuk-Wai So
- <<u>PA11</u>> Reactivity of Chlorosilylene Stabilized by an Iminophosphonamide Ligand <u>Shintaro Takahashi</u>, Norio Nakata, and Akihiko Ishii
- <PA12> Reactivity Study of N-Heterocyclic Carbene Stabilized Silylene Hydride: A Systematic Study of NHC-coordinate Hydrosilylene Transition Metal Complexes <u>Gizem Dübek</u>, Carsten Eisenhut, and Shigeyoshi Inoue
- <<u>PA13</u>> Activation of Molecular H₂ by an *N*-Heterocyclic Silylene (NHSi)-Stabilized Boronium Cation <u>Sabrina Khoo</u> and Cheuk-Wai So
- <<u>PA14</u>> S-H bond activation in Hydrogen Sulfide by NHC-stabilized Silyliumylidene Ions <u>Amelie Porzelt</u> and Shigeyoshi Inoue
- <<u>PA15</u>> A Dimeric NHC-Silicon Monotelluride: Synthesis, Isomerization and Reactivity <u>Bi-Xiang Leong</u> and Cheuk-Wai So
- <<u>PA16</u>> Isolation and Reactivity Studies of Acyclic Three-Coordinate Silanones <u>Dominik Reiter</u>, Amelie Porzelt, and Shigeyoshi Inoue

- <<u>PA17</u>> α-Phosphinoamido- and α-Borylamido-Germylenes: Tuning HOMO-LUMO Gap with Substituent Change for Catalytic Significance Shiv Pal, Rajarshi Dasgupta, and Shabana Khan
- <<u>PA18</u>> Trapping a Highly Electrophilic Germacarbonate <u>Ving Kai Loh</u> and Simon Aldridge
- <<u>PA19</u>> Reactivity of a Zero-Valent Tin Complex Stabilized by a Butadiene Ligand <u>Shinya Kobayashi</u>, Shunsuke Furukawa, and Masaichi Saito
- <<u>PA20</u>> Synthesis and Reactivity of Dodecaallylhexasilacyclohexane <u>Yamato Omatsu</u>, Yoshiyuki Mizuhata, and Norihiro Tokitoh
- <PA21> Synthesis, Structures, and Reactivity of 1,2-Dibromoditetrenes with Bulky MPind Groups, (MPind)BrE=EBr(MPind) (E = Si and Ge) <u>Ryoma Ohno</u>, Kousuke Magami, Shigeaki Konaka, Yasuyuki Numata, Naoki Hayakawa, Daisuke Hashizume, and Tsukasa Matsuo
- <<u>PA22</u>> The [2+2] Cycloaddition of Alkynes to Si=Si Moieties Revisited Andreas Kell, Naim Obeid, and David Scheschkewitz
- <<u>PA23</u>> Synthesis and Reactivity of Tetragermacyclobutadiene <u>Yasuyuki Numata</u>, Naoki Hayakawa, Daisuke Hashizume, and Tsukasa Matsuo
- <<u>PA24</u>> Inhibited Cyclization of Peripherally Functionalized Digermenes <u>Lukas Klemmer</u>, Yvonne Kaiser, and David Scheschkewitz
- <<u>PA25</u>> Synthesis and Properties of Stable 1,4-Digermabenzenes <u>Tomohiro Sugahara</u>, Jing-Dong Guo, Takahiro Sasamori, and Norihiro Tokitoh
- <<u>PA26</u>> Synthesis of Germabenzenes having Various Aryl Groups by Reaction of *in-situ* Generated Chlorogermabenzene <u>Canon Kaiya</u>, Katsunori Suzuki, and Makoto Yamashita
- <<u>PA27</u>> Platinum-Catalyzed Reactions of 2,3-Bis(diisopropylsilyl)thiophene with Alkynes Takashi Mihara, Hisayoshi Kobayashi, and Akinobu Naka

<<u>PA28</u>> Synthesis and Characterization of New Polyhedral Structures Based on Double-decker Silsesquioxane

Kunthom Rungthip, Nobuhiro Takeda, and Masafumi Unno

<<u>PA29</u>> Grafting of Germanium-based Groups to a Si₆ Siliconoids: Side Chain Attachment vs. Core Expansion <u>Nadine Poitiers</u>, Kinga Leszczyńska, Volker Huch, Michael Zimmer, and David Scheschkewitz

<<u>PA30</u>> **Transition Metal Complexes of Siliconoids** Luisa Giarrana, Nadine Poitiers, Volker Huch, Michael Zimmer, and David Scheschkewitz

- <PA31> Atom by Atom Selective Expansion of Unsaturated, Anionic Silicon Cluster Si₆Tip₅⁻ to Give Highly Unsaturated Clusters: Si₇Tip₅Cp*, Si₇Tip₅⁻, Si₈Tip₅Cp* <u>Kinga Leszczyńska</u>, Raphael J. F. Berger, Volker Huch, Carsten Präsang, and David Scheschkewitz
- <PA32> Six- and Eight-Membered Rings of Germanium and Copper as well as Phosphorous Atoms Comprising Homoatomic Ge₉ Clusters Lorenz J. Schiegerl, Felix S. Geitner, Kerstin Mayer, Christoph Wallach, and Thomas F. Fässler
- <<u>PA33</u>> Synthesis and Characterization of Methylated Sulfidometalate Compounds <u>Bertram G. H. Peters</u> and Stefanie Dehnen
- <<u>PA34</u>> A Molecular Construction Kit for Metalloid Tin Clusters: From Organotin Hydrides to Polyhedral Structures <u>Beate G. Steller</u> and Roland C. Fischer
- <<u>PA35</u>> Tin Sulfide Clusters Thrive Towards Their Watersolubility <u>Annikka Kreher</u>, Jan-Philipp Berndt, Radim Hrdina, Peter R. Schreiner, and Stefanie Dehnen
- <<u>PA36</u>> Intermetalloid Clusters of Group 15 Elements <u>Armin Rainer Eulenstein</u>, Lukas Guggolz, Werner Massa, Florian Weigend, and Stefanie Dehnen

<<u>PA37</u>> Al and Al-Siloxaneclusters as Model Systems for Condensation and Hydrolysis Reactions

Philipp Wittwer and Thomas Braun

- <<u>PA38</u>> Iron-Bisphosphine-Catalyzed Cross-Coupling Reaction toward Synthesis of Natural Triene Urushiol Ryosuke Agata, Hiroshi Matsuda, Katsuhiro Isozaki, and Masaharu Nakamura
- <<u>PA39</u>> Move Over Transition Metals: Calcium Compound for Catalytic Hydroboration and Cyanosilylation Reactions <u>Sandeep Yadav</u> and Sakya S. Sen
- <PA40> Iron-Catalysed Asymmetric Carbometalation of Azabicyclic Alkenes Jan Geldsetzer, Katsuhiro Isozaki, Laksmikanta Adak, Shota Saito, Nicholas J. Gower, Paul Cogswell, Tatsuya Kawabata, Masayoshi Jin, Takuma Itoh, Shingo Ito, and Masaharu Nakamura
- <<u>PB01</u>> Synthesis and Structure of 9,10-Dihydro-9-aza-10-boraanthracene <u>Yutaro Ishikawa</u>, Shin-ya Nema, Kohei Hayashi, Katsunori Suzuki, and Makoto Yamashita
- <<u>PB02</u>> Photophysical Properties of Benzo[*d*]dithieno[*d*,*f*]borepins <u>Vohei Adachi</u> and Joji Ohshita
- <<u>PB03</u>> Varied Reactivity of *closo*-Thiaboranes Jan Vrána, Zdenka Růžicková, Josef Holub, and Drahomír Hnyk
- <<u>PB04</u>> Catalytic Hydroboration of Carbon Dioxide Using an Aluminium Carbenoid Complex <u>Cher-Chiek Chia</u> and Cheuk-Wai So
- <<u>PB05</u>> Synthesis, Structures and Properties of Borane-Based Diradical and Triradical Lei Wang, Gengwen Tan, and Xinping Wang
- <<u>PB06</u>> Recombination of an Aluminum-iron Complex with EBr₃ (E = Al, Ga) *via* Three-center Two-electron Bonds Tatsuya Yanagisawa, Yoshiyuki Mizuhata, and Norihiro Tokitoh

- <PB07> Synthesis and Photoreaction of a Half-Parent Diazomethane Bearing the Bulky EMind Group, (EMind)CHN₂ <u>Kohei Yamada</u>, Yuya Sano, Naoki Hayakawa, Takayoshi Yoshimura, Miho Hatanaka, and Tsukasa Matsuo
- <<u>PB08</u>> Synthesis and Coordination Properties of Multi-dentate Phosphanyl Phosphinines: <u>Xiaodan Chen</u>
- <<u>PB09</u>> Synthesis and Reactivity of Phosphorus Compounds with a Tridentate Ligand Shuhei Maeda, Tomomi Kukita, and Yohsuke Yamamoto
- <<u>PB10</u>> Generation and Reactivity of 1,2-Oxaphosphetanes Bearing A Phosphaheteratriptycene Skeleton Containing Sb or Sn <u>Yosuke Uchiyama</u>, Suguru Kuniya, Ryo Watanabe, and Takemaru Ohtsuki
- <<u>PB11</u>> Syntheses of Cyclodiphosphazane-based Macromolecules <u>Ving Sim</u> and Felipe García
- <<u>PB12</u>> Synthesis and Reactions of Oxaphosphirane Iron(0) Complexes <u>Niklas Volk</u>, Alexander Schmer, and Rainer Streubel
- <<u>PB13</u>> Hetero-Cyclopentane-1,3-diyls: Modification of Molecular Switches with Different Sterically Demanding Groups <u>Henrik Müller</u>, Jonas Bresien, Thomas Kröger-Badge, Dirk Michalik, Anne-Kristin Rölke, Axel Schulz, Alexander Villinger, Ronald Wustrack, and Edgar Zander
- <<u>PB14</u>> A New and Facile Synthetic Approach to Azadiphosphiridine Complexes <u>Alexander Schmer</u>, Tatjana Terschüren, and Rainer Streubel
- <<u>PB15</u>> Mechanochemical Syntheses of Cyclophosphazane Compounds Felipe Garcia
- <<u>PB16</u>> [E(µ-NBbp)]₂ Group 15 Biradicals Synthesized from Acyclic Precursors Lilian Sophie Szych, Jonas Bresien, Axel Schulz, Alexander Villinger, and Ronald Wustrack

- <<u>PB17</u>> Hetero-Cyclopentane-1,3-diyls as Molecular Switches: A Theoretical Study Jonas Bresien, Stefan Lochbrunner, Henrik Müller, Axel Schulz, and Edgar Zander
- <<u>PB18</u>> Oxidation of the Tetrahedral Molybdenum Complexes [{Cp^RMo(CO)₂}₂(μ,η²:η²-EE')] (E, E' = P, As, Sb, Bi) <u>Luis Dütsch</u> and Manfred Scheer
- <<u>PB19</u>> Reactivity Studies of a DBU-functionalized Phosphaalkene towards Strong Acids and Palladium: Stabilized Hydrogen-Bonded Adducts and Supramolecular Hydrogen Bonding Interactions <u>D. Morales Salazar</u>, A. Kumar Gupta, and A. Orthaber
- Synthesis and Characterization of Cyclopentadithiophen Heterofulvenes: Design Tool for Light-Activated Processes <u>Muhammad Anwar Shameem</u>, Amal El- Nahhas, Pavel Chabera, Jens Uhlig, and Andreas Orthaber
- <<u>PB21</u>> Cleavage of Heavier Double Bonds Mediated by NHC Kazuya Sadamori, Naoki Hayakawa, Miho Hatanaka, and Tsukasa Matsuo
- <<u>PB22</u>> Synthesis of Novel Ring Systems Including Antimony Atoms by Reactions of a Dialkyldistibene Ryohei Nishino and Mao Minoura
- <<u>PB23</u>> Synthesis and Characterization of Stibinyl Dications [12–Sb–6]²⁺ <u>Masato Sakabe</u>, Kazuki Ichimura, Wataru Fujita, and Soichi Sato
- <PB24> Synthesis of Iridium Complexes Bearing New SiS₃-type Tripodal Tetradentate Ligand and Their Application to Catalysts for Hydrosilylation Nozomi Ito, Fumiaki Kobayashi, Nanami Shoda, Nobuhiro Takeda, and Masafumi Unno
- <PB25> A Cyclic Tetranuclear Gold Complex [(PPh₃)₄Au₄(SPh)₂](NTf₂)₂: A Novel Catalyst for Anti-Markovnikov Hydrothiolation of Unactivated Alkenes <u>Shintaro Kodama</u>, Taichi Tamai, Keiko Fujiwara, Akihiro Nomoto, Michio Ueshima, and Akiya Ogawa

<<u>PB26</u>> Synthesis and Properties of Rhodium Complexes with PS₃-type Tripodal Tetradentate Ligand

Hiroki Hiyama, Yuto Todoroki, Nobuhiro Takeda, and Masafumi Unno

- <<u>PB27</u>> Syntheses, Crystal Structures, and Photophysical Properties of Platinum(II) Complexes Containing a Disulfanenitrile Hiroya Honda and <u>Takayoshi Fujii</u>
- <<u>PB28</u>> Dynamic Behavior of Hydrogen Bonds on a Sulfur-Containing Open-Cage Fullerene C₆₀ Derivative Shota Hasegawa, Yoshifumi Hashikawa, and Yasujiro Murata
- <<u>PB29</u>> Synthesis of Octakis(arylselanyl)naphthalene Dications and Evaluation of their Extended Double Aromatic Character Soshi Mibu, Shunsuke Furukawa, Kazuya Ishimura, Mao Minoura, and Masaichi Saito
- <<u>PB30</u>> Reaction of Acetophenone Hydrazones with TeCl₄: Novel Formation of 2,5-Diaryltellurophenes <u>Kentaro Okuma</u>, Shuhei Yahata, Noriyoshi Nagahora, and Kosei Shioji
- <<u>PB31</u>> Synthesis and Photophysical Properties of 5-Aminothiazole Derivatives Having Pyridyl Groups <u>Khurnia Krisna Puji Pamungkas,</u> and Toshiaki Murai
- <<u>PB32</u>> Synthesis and ICT-Based Sensing Properties of 1,3,5-Triazine-cored Star-shaped (Dπ)₃-A Molecules with Various Amino-type Donor Receptors <u>Hiroki Muraoka</u> and Satoshi Ogawa
- <PB33> Development of Functional Dye Compounds Bearing 2,1,3-Benzochalcogenadiazole Moiety <u>Hideaki Miyake</u>, Ito Tomoka, Shibata Masaru, Noritake Murakami, Kango Ishimoto, Takumi Izawa, Tomoyuki Tajima, and Yutaka Takaguchi
- <<u>PB34</u>> Synthesis and Properties of Unsaturated Thiacrown Ethers Possessing *p*-Substituted Benzene Rings Toshio Shimizu, Eri Kamimaki, and Kazunori Hirabayashi

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- <<u>PB36</u>> Strain-induced Double Carbon-Carbon Bond Activations of Cycloparaphenylenes (CPPs) by a Platinum Complex <u>Eiichi Kayahara</u>, Toshiki Hayashi, and Shigeru Yamago
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- <<u>PB39</u>> Molecular Orientation Control in Naphthalene Diimides <u>Tomoya Nakamura</u>, Nobutaka Shioya, Takafumi Shimoaka, Takeshi Hasegawa, Yasujiro Murata, and Atsushi Wakamiya

<<u>PB40</u>> Efficient Lead Free Perovskite Solar Cells with Highly Purified Solvent-Coordinated Tin Halide Complexes as Precursors Jiewei Liu, Masashi Ozaki, Yukie Katsuki, Taketo Handa, Ryosuke Nishikubo, Yoshihiko,

Jiewei Liu, Masashi Ozaki, Yukie Katsuki, Taketo Handa, Ryosuke Nishikubo, Yoshihiko Kanemitsu, Akinori Saeki, Yasujiro Murata, and Atsushi Wakamiya