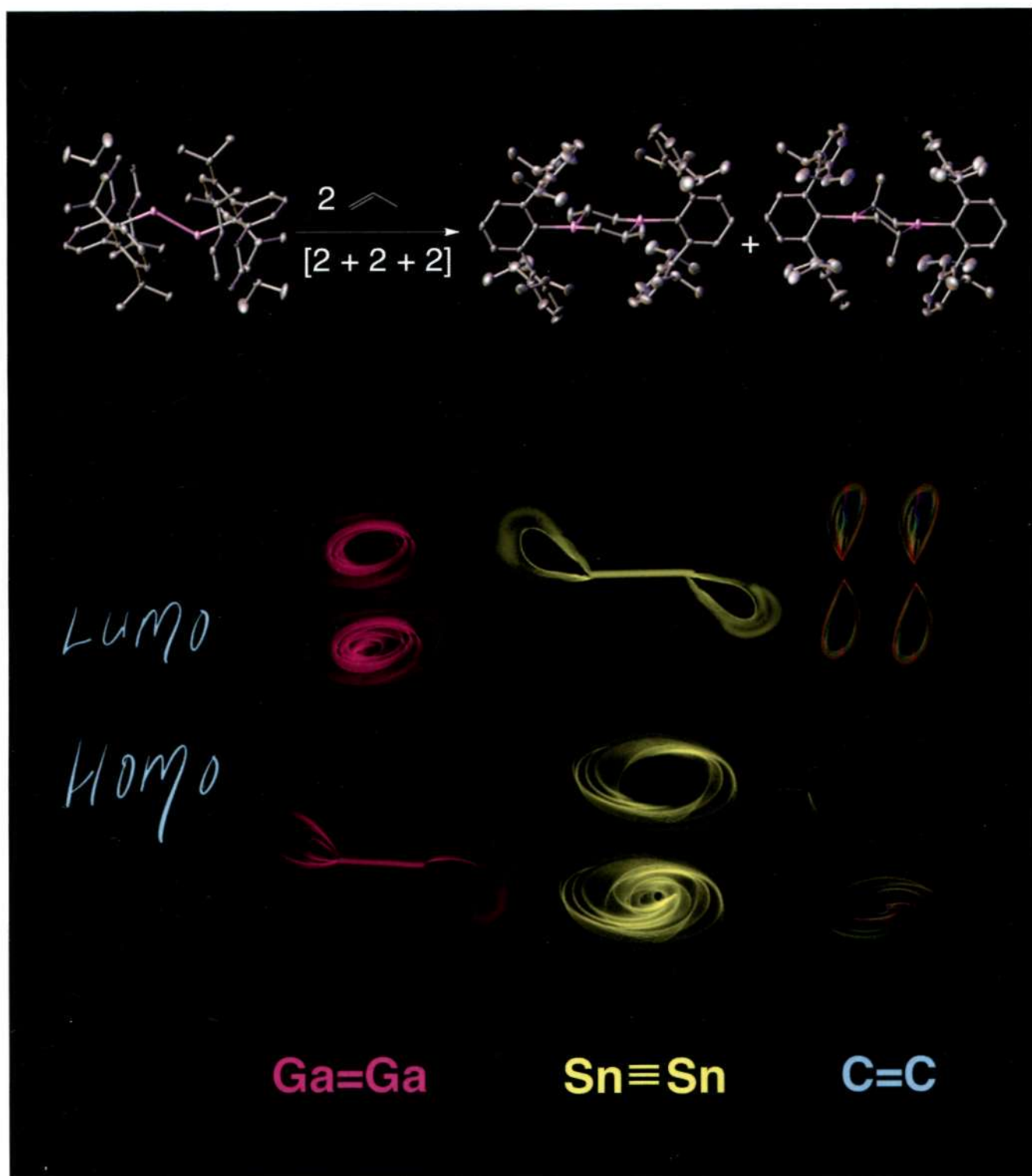


ORGANOMETALLICS



ON THE COVER: Molecular structures of digallene cycloadditions and frontier molecular orbital drawings. See the paper by Caputo and Power on pages 2278–2286.

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dx.doi.org/10.1021/om4002044

Award-Winning Organometallic Chemistry: The 2012 ACS Award in Organometallic Chemistry

John A. Gladysz



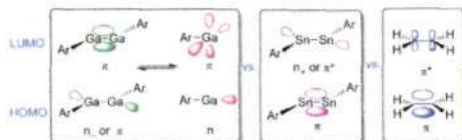
Reviews

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dx.doi.org/10.1021/om4000049

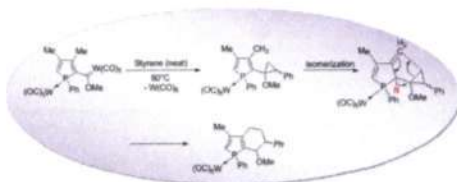
Heavier Main Group Dimetallene Reactivity: Effects of Frontier Orbital Symmetry

Christine A. Caputo and Philip P. Power*



2287 **5**
 The Original Reactivity of a Phosphole-Substituted Fischer Carbene Complex
 Kim Hong Ng, Yongxin Li, Rakesh Ganguly, and Francois Mathey*

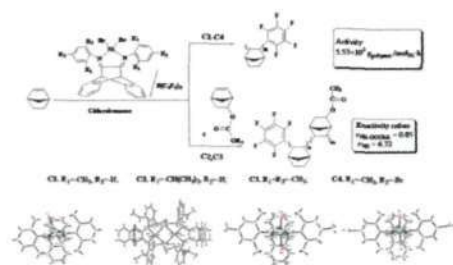
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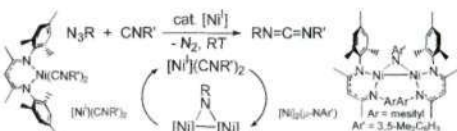
2291 **5**
 Nickel(II) Complexes with Three-Dimensional Geometry α -Diimine Ligands: Synthesis and Catalytic Activity toward Copolymerization of Norbornene
 Ping Huo, Wanyun Liu, Xiaohui He,* Hongming Wang, and Yiwang Chen*

dx.doi.org/10.1021/om300883h



2300 **5**
 β -Diketiminato Nickel Imides in Catalytic Nitrene Transfer to Isocyanides
 Stefan Wiese, Mae Joanne B. Aguila, Elzbieta Kogut, and Timothy H. Warren*

dx.doi.org/10.1021/om300909n



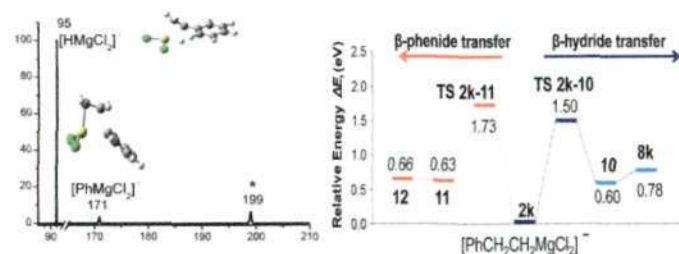
2309 **5** dx.doi.org/10.1021/om301086p

Probing the Characteristics of Mono- or Bimetallic (Iron or Cobalt) Complexes Bearing 2,4-Bis(6-iminopyridin-2-yl)-3H-benzazepines: Synthesis, Characterization, and Ethylene Reactivity
 Wen-Hua Sun,* Qifeng Xing, Jiangang Yu, Elena Novikova, Weizhen Zhao, Xiubo Tang, Tongling Liang, and Carl Redshaw*



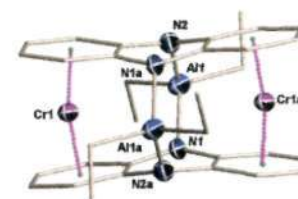
2319 **5** dx.doi.org/10.1021/om3011917

Gas-Phase Formation and Fragmentation Reactions of the Organomagnesates $[RMgX_2]^-$
 George N. Khairallah, Charlene C. L. Thum, Denis Lesage, Jean-Claude Tabet, and Richard A. J. O'Hair*



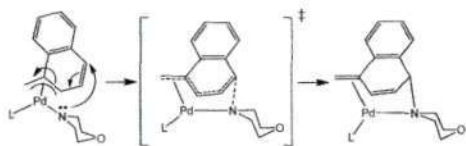
2329 **5** dx.doi.org/10.1021/om3012097

Heterometallic Aluminum–Chromium Phenazine and Thiophenazine Complexes. Formation of a Tetranuclear Chromium(II) Sandwich Complex
 Vladimir Shuster, Sandro Gambarotta,* Grigory B. Nikiforov, and Peter H. M. Budzelaar*



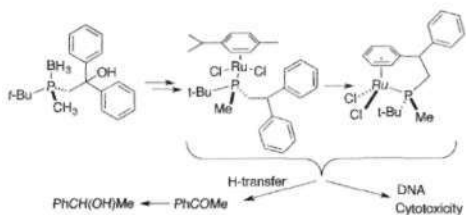
DFT Studies on the Palladium-Catalyzed Dearomatization Reaction between Chloromethylnaphthalene and the Cyclic Amine Morpholine

Hujun Xie, Hong Zhang, and Zhenyang Lin*



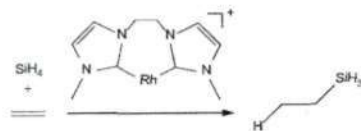
[RuCl₂(η⁶-p-cymene)(P*)] and [RuCl₂(κ-P*-η⁶-arene)] Complexes Containing P-Stereogenic Phosphines. Activity in Transfer Hydrogenation and Interactions with DNA

Rosario Aznar, Arnald Grabulosa, Alberto Mannu, Guillermo Muller,* Daniel Sainz, Virtudes Moreno, Mercè Font-Bardia, Teresa Calvet, and Julia Lorenzo



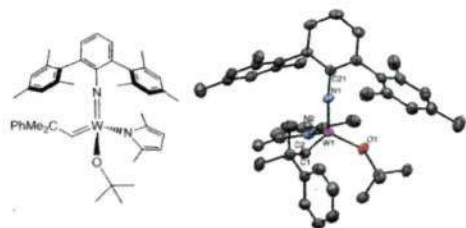
Olefin Hydrosilylation Catalyzed by a Bis-N-Heterocyclic Carbene Rhodium Complex. A Density Functional Theory Study

Yin Wu, Virve A. Karttunen, Shane Parker, Alexander Genest, and Notker Rösch*



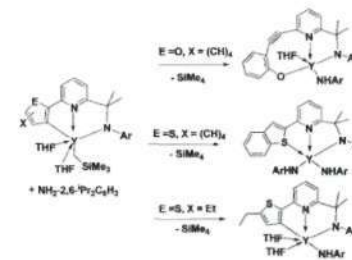
Molybdenum and Tungsten Monoalkoxide Pyrrolide (MAP) Alkylidene Complexes That Contain a 2,6-Dimesitylphenylimido Ligand

Laura C. H. Gerber, Richard R. Schrock,* and Peter Müller



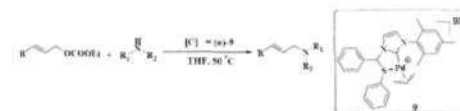
Yttrium Complexes Featuring Different Y–C Bonds. Comparative Reactivity Studies: Toward Terminal Imido Complexes

Alexander A. Karpov, Anton V. Cherkasov, Georgy K. Fukin, Andrei S. Shavyrin, Lapo Luconi, Giuliano Giambastiani, and Alexander A. Trifonov*



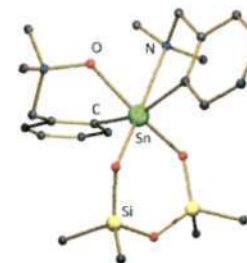
N-Heterocyclic Carbene C,S Palladium(II) π-Allyl Complexes: Synthesis, Characterization, and Catalytic Application In Allylic Amination Reactions

Deepa Krishnan, Meiyi Wu, Minyi Chiang, Yongxin Li, Pak-Hing Leung,* and Sumod A. Pullarkat*

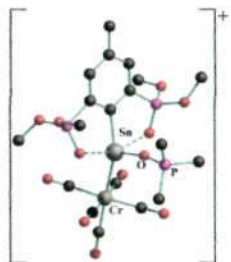



Unusual Reactivity of a C,N-Chelated Stannylenes with Siloxanes and Silanols

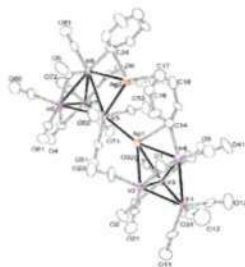
Zdeňka Padělková,* Petr Švec, Hana Kampová, Jan Sýkora, Miloslav Semler, Petr Štěpnička, Snežana Bakardjeva, Rudolph Willem, and Aleš Růžička



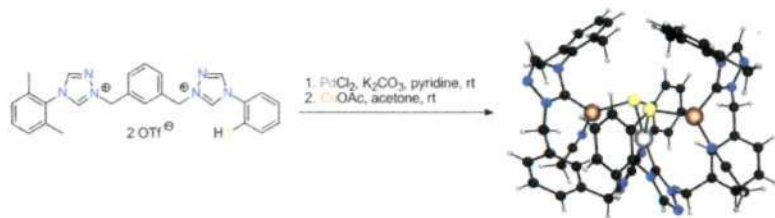
2406  dx.doi.org/10.1021/om400131v
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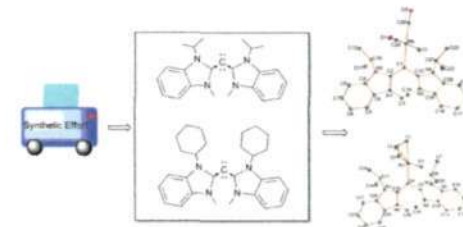
2416  dx.doi.org/10.1021/om400133w
Semibridging Phenyl Ligands in Iridium–Copper and Iridium–Silver Cluster Compounds: Synthesis, Structures, and Bonding
 Richard D. Adams,* Mingwei Chen, Gaya Elpitiya, Xinzheng Yang,* and Qiang Zhang




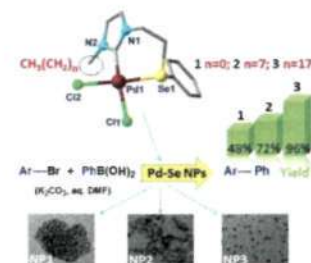
2427  dx.doi.org/10.1021/om400143u
Stepwise Deprotonation of a Thiol-Functionalized Bis(1,2,4-triazolium) Salt as a Selective Route to Heterometallic NHC Complexes
 Stefanie C. Seitz, Frank Rominger, and Bernd F. Straub*



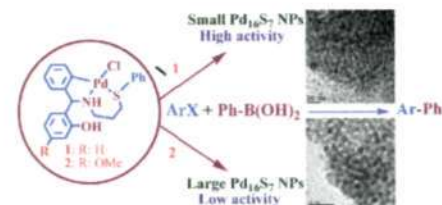
2435  dx.doi.org/10.1021/om400139s
Synthetic Modification of Acyclic Bent Allenes (Carbodicarbenes) and Further Studies on Their Structural Implications and Reactivities
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2443  dx.doi.org/10.1021/om400148c
Selenium-Containing N-Heterocyclic Carbenes and Their First Palladium(II) Complexes: Synthesis, Structure, and Pendant Alkyl Chain Length Dependent Catalytic Activity for Suzuki–Miyaura Coupling
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2452  dx.doi.org/10.1021/om4001956
Palladacycles of Thioethers Catalyzing Suzuki–Miyaura C–C Coupling: Generation and Catalytic Activity of Nanoparticles
 Gyandshwar Kumar Rao, Arun Kumar, Satyendra Kumar, Umesh B. Dupare, and Ajai K. Singh*
 Please provide a synopsis





Copper-Catalyzed Hydroboration of Carbon Dioxide

Ryo Shintani* and Kyoko Nozaki*

