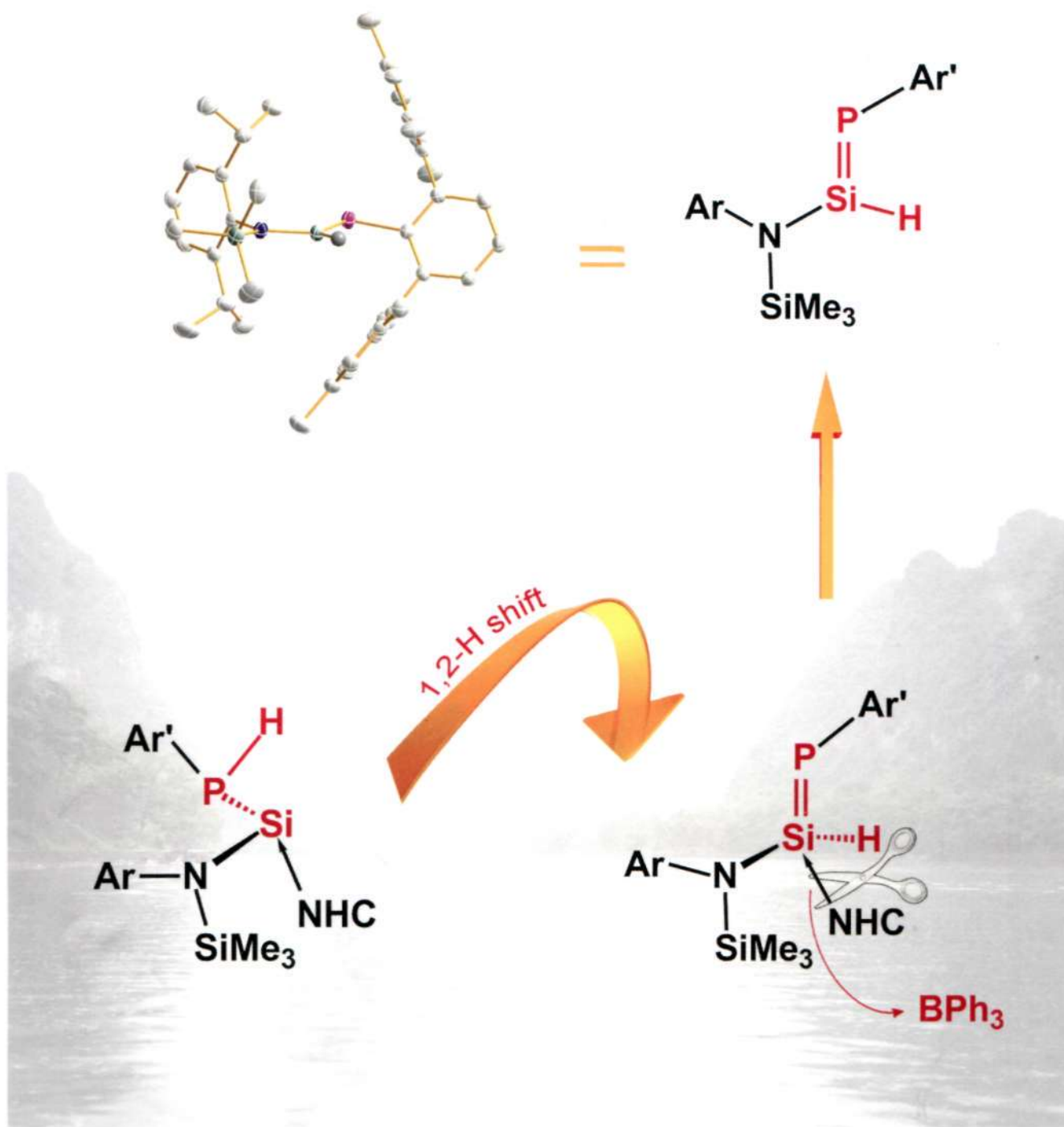


ORGANOMETALLICS



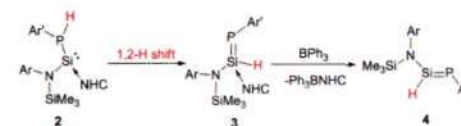
ON THE COVER: The first 2-aminophosphasilene $[\text{Ar}(\text{Me}_3\text{Si})\text{N}]\text{HSi}=\text{PAr}'$ with significant N–Si–P π conjugation has been obtained from an NHC-supported aminosilylene $[\text{Ar}(\text{Me}_3\text{Si})\text{N}]\text{His}(\text{NHC})\equiv\text{PAr}'$. See the paper by Cui et al. on pages 1–4.

Communications

 1 **5**
dx.doi.org/10.1021/om3008184

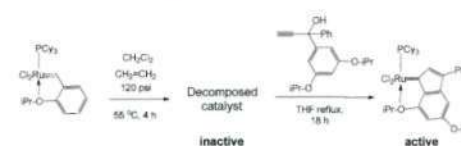
2-Hydro-2-aminophosphasilene with N–Si–P π Conjugation

Haiyan Cui, Jianying Zhang, and Chunming Cui*


 5 **5**
dx.doi.org/10.1021/om301042a

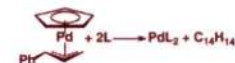
Reactivation of a Ruthenium-Based Olefin Metathesis Catalyst

Daniel S. Tabari, Daniel R. Tolentino, and Yann Schrodi*


 9 **5**
dx.doi.org/10.1021/om301081r

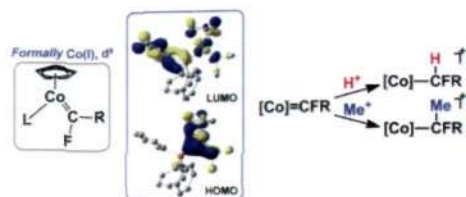
$\text{Pd}(\eta^3\text{-1-PhC}_3\text{H}_4)(\eta^5\text{-C}_5\text{H}_5)$, an Unusually Effective Catalyst Precursor for Heck–Mizoroki and Sonogashira Cross-Coupling Reactions Catalyzed by Bis-Phosphine Palladium(0) Compounds

Andrew W. Fraser, Bryan E. Jaksic, Rhys Batcup, Christopher D. Sarsons, Michael Woolman, and Michael C. Baird*



Cobalt Fluorocarbene Complexes

Daniel J. Harrison, Serge I. Gorelsky, Graham M. Lee, Ilia Korobkov, and R. Tom Baker*



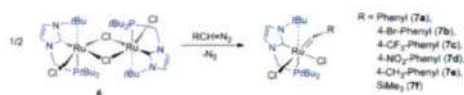
Articles

Computational Investigation of Brook-Type Silabenzenes and Their Possible Formation through [1,3]-Si—O Silyl Shifts

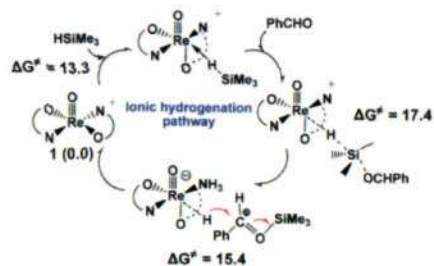
Alvi Muhammad Rouf, Burkhard O. Jahn, and Henrik Ottosson*

Bulky *N*-Phosphinomethyl-Functionalized *N*-Heterocyclic Carbene Chelate Ligands: Synthesis, Molecular Geometry, Electronic Structure, and Their Ruthenium Alkylidene Complexes

Hiyam Salem, Martin Schmitt, Ulrike Herrlich (née Blumbach), Erik Kühnel, Marcel Brill, Philipp Nägele, André Luiz Bogado, Frank Rominger, and Peter Hofmann*

Hydroxylation of Carbonyls Catalyzed by the Rhenium(V) Oxo Complex $[Re(O)(hoz)_2]^+$ —A Non-Hydride Pathway

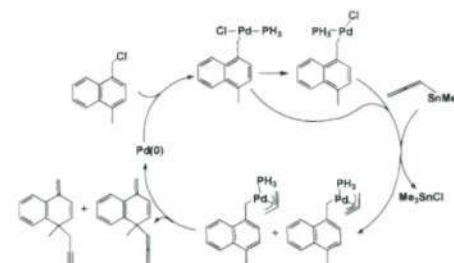
Piao Gu, Wenmin Wang, You Wang, and Haiyan Wei*



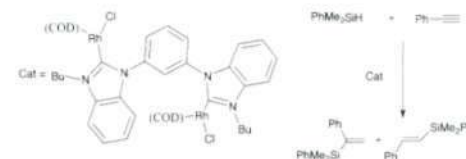
6A

Theoretical Study on the Mechanism of Palladium-Catalyzed Dearomatization Reaction of Chloromethylnaphthalene

Ying Ren, Jianfeng Jia,* Wenxian Liu, and Hai-Shun Wu

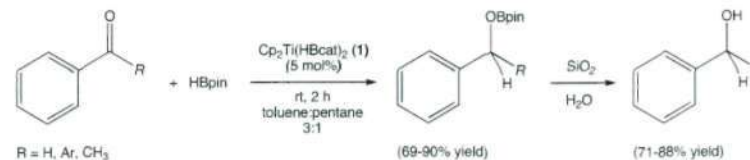
Synthesis and Characterization of a 1,3-Phenylene-Bridged *N*-Alkyl Bis(benzimidazole) CCC-NHC Pincer Ligand Precursor: Homobimetallic Silver and Rhodium Complexes and the Catalytic Hydroxylation of Phenylacetylene

Aron J. Huckaba, T. Keith Hollis,* Tyler O. Howell, Henry U. Valle, and Yunshan Wu

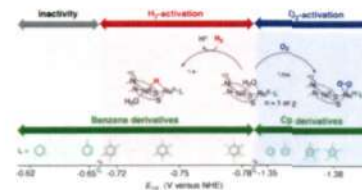


Titanocene(II)-Catalyzed Hydroboration of Carbonyl Compounds

Abdulafeez A. Oluyadi, Shuhua Ma, and Clare N. Muhoro*

Selective Redox Activation of H_2 or O_2 in a $[NiRu]$ Complex by Aromatic Ligand Effects

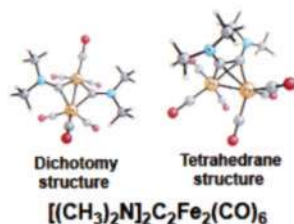
Kyoungmok Kim, Takahiro Kishima, Takahiro Matsumoto, Hidetaka Nakai, and Seiji Ogo*



7A

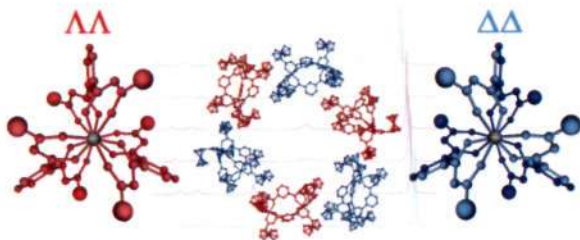
Alkyne Dichotomy: Splitting of Bis(dialkylamino)acetylenes, Dimethoxyacetylene, Bis(methylthio)acetylene, and Their Heavier Congeners To Give Carbyne Ligands in Iron Carbonyl Derivatives

Huidong Li, Hao Feng,* Weiguo Sun, Yaoming Xie, R. Bruce King,* and Henry F. Schaefer III



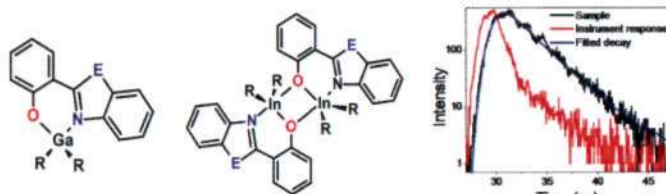
Design, Synthesis, and Structural Characterization of a New Class of Ferrocene-Containing Heterometallic Triple-Stranded Helicates

Muthukrishna Raja,* Ratnasabapathy G. Iyer, Chengeto Gwengo, Daniel L. Reger, Perry J. Pellechia, Mark D. Smith, and Andrea E. Pascui



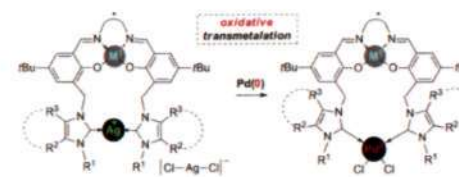
Diorgano-Gallium and -Indium Complexes Derived from Benzoazole Ligands: Synthesis, Characterization, Photoluminescence, and Computational Studies

Manoj K. Pal, Nisha Kushwah, Debashree Manna, Amey Wadawale, V. Sudarsan, Tapan K. Ghanty, and Vimal K. Jain*



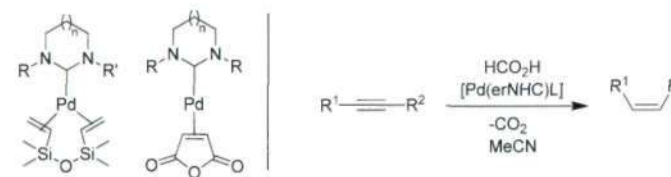
Homo- and Heterobimetallic Pd-, Ag-, and Ni-Hybrid Salen-Bis-NHC Complexes

Melanie Mechler, Katja Latendorf, Wolfgang Frey, and René Peters*



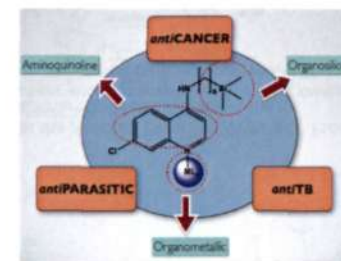
Zerovalent $[\text{Pd}(\text{NHC})(\text{Alkene})_{1,2}]$ Complexes Bearing Expanded-Ring N-Heterocyclic Carbene Ligands in Transfer Hydrogenation of Alkynes

Peter Hauwert, Jay J. Dunsford, Dorette S. Tromp, Jan J. Weigand, Martin Lutz, Kingsley J. Cavell,* and Cornelis J. Elsevier*



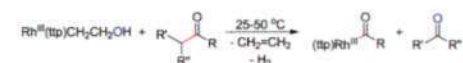
Synthesis, Characterization, and Pharmacological Evaluation of Silicon-Containing Aminoquinoline Organometallic Complexes As Antiplasmodial, Antitumor, and Antimycobacterial Agents

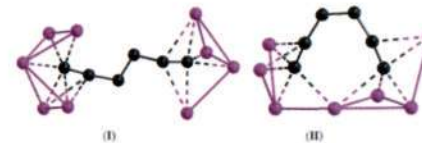
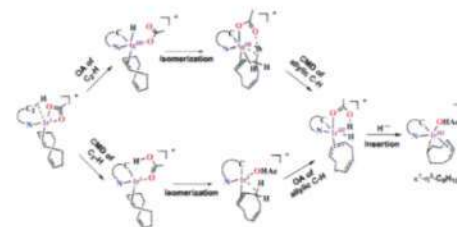
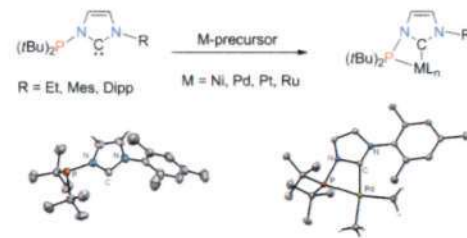
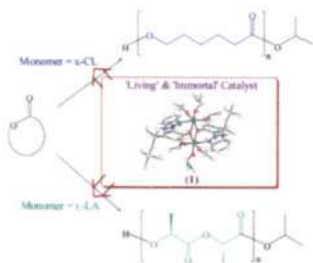
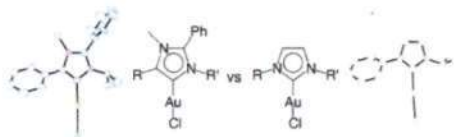
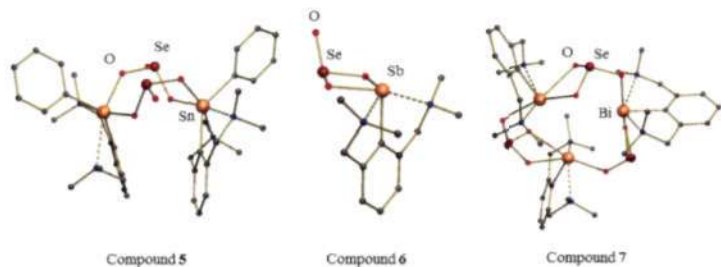
Yiqun Li, Carmen de Kock, Peter J. Smith, Hajira Guzgay, Denver T. Hendricks, Krupa Naran, Valerie Mizrahi, Digby F. Warner, Kelly Chibale,* and Gregory S. Smith*



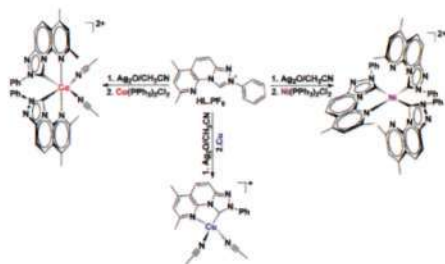
Mild and Selective C(CO)-C(α) Bond Activation of Ketones with Rhodium(III) Porphyrin β -Hydroxyethyl

Chung Sum Chan, Siu Yin Lee, and Kin Shing Chan*

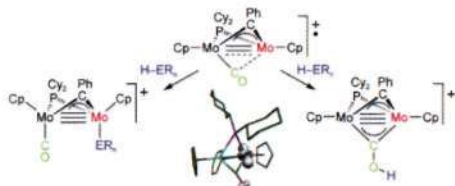




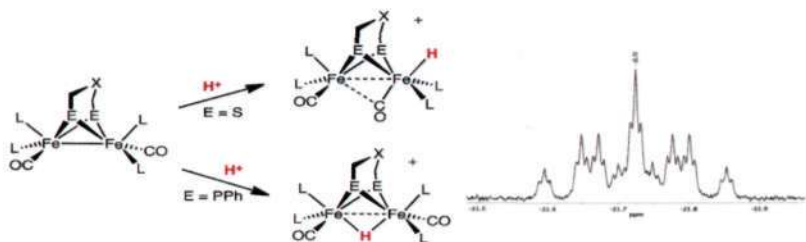
A Planar π -Conjugated Naphthyridine-Based N-Heterocyclic Carbene Ligand and Its Derived Transition-Metal Complexes
Xiaolong Liu, Shanfei Pan, Junshi Wu, Yapei Wang, and Wanzhi Chen*



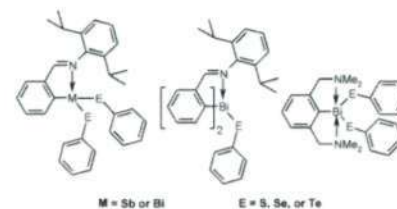
Electronic Structure and Reactivity of the Carbyne-Bridged Dimolybdenum Radical $[\text{Mo}_2(\eta^5\text{-C}_5\text{H}_5)_2(\mu\text{-CPh})(\mu\text{-PCy}_2)(\mu\text{-CO})]^+$
M. Angeles Alvarez, M. Esther Garcia, Daniel Garcia-Vivó, Sonia Menéndez, and Miguel A. Ruiz*



Contrasting Protonation Behavior of Diphosphido vs Dithiolato Diiron(I) Carbonyl Complexes
Riccardo Zaffaroni, Thomas B. Rauchfuss,* Amy Fuller, Luca De Gioia, and Giuseppe Zampella

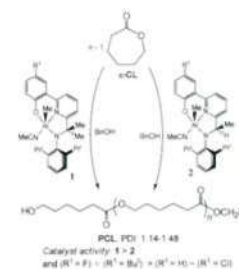


Oxidative Addition of Diphenyldichalcogenides PhEEP (E = S, Se, Te) to Low-Valent CN- and NCN-Chelated Organoantimony and Organobismuth Compounds
Petr Šimon, Roman Jambor, Aleš Růžicka, and Libor Dostál*



Phenolate Substituent Effects on Ring-Opening Polymerization of ϵ -Caprolactone by Aluminum Complexes Bearing 2-(Phenyl-2-olate)-6-(1-amidoalkyl)pyridine Pincers

Wafaa Alkarekshi, Andrew P. Armitage, Olivier Boyron, Christopher J. Davies, Matifadza Govere, Andrew Gregory, Kuldip Singh, and Gregory A. Solan*



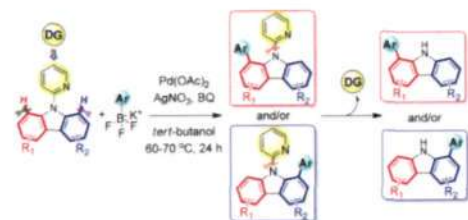
Synthesis and Dynamic Properties of a Triruthenium Complex Containing $\mu_3\text{-}\eta^2(\text{||})$ -Ethyne and μ_3 -Methylidyne Ligands: Equilibrium of an Ethyne-Hydrido Complex with a Nonclassical μ_3 -Vinyl Complex
Atsushi Tahara, Mana Kajigaya, Toshiro Takao, and Hiroharu Suzuki*



Direct Ortho Arylation of 9-(Pyridin-2-yl)-9H-carbazoles Bearing a Removable Directing Group via Palladium(II)-Catalyzed C–H Bond Activation

Jean-Ho Chu,* Chung-Chiu Wu, Deng-Hsiang Chang, Ya-Ming Lee, and Ming-Jung Wu*

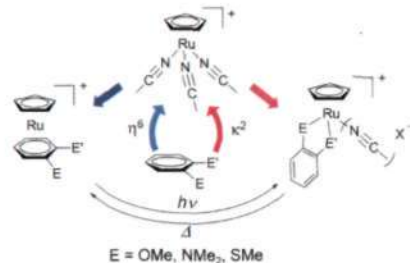
dx.doi.org/10.1021/om301071m



Preparation and Properties of Cyclopentadienyl Ruthenocenium Complexes with 1,2-Disubstituted Benzene Ligands: Competition between Chelate Coordination and Sandwich Coordination

Shotaro Mori and Tomoyuki Mochida*

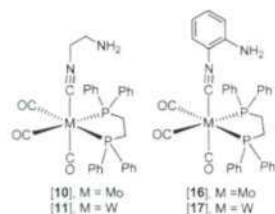
dx.doi.org/10.1021/om301073z



Metal-Template-Controlled Stabilization of β -Functionalized Isocyanides

A. Carolin Dumke, Tania Pape, Jutta Kösters, Kai-Oliver Feldmann, Christian Schulte to Brinke, and F. Ekkehardt Hahn*

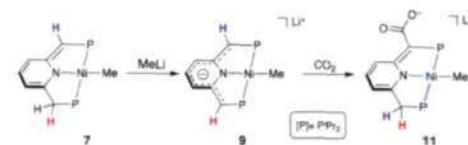
dx.doi.org/10.1021/om301067v



Anionic Nickel(II) Complexes with Doubly Deprotonated PNP Pincer-Type Ligands and Their Reactivity toward CO₂

Matthias Vogt, Orestes Rivada-Whealaghan, Mark A. Iron, Gregory Leitus, Yael Diskin-Posner, Linda J. W. Shimon, Yehoshua Ben-David, and David Milstein*

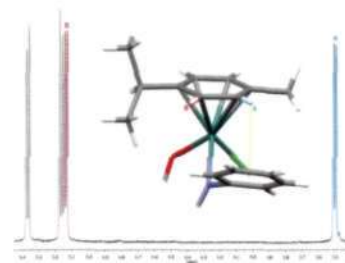
dx.doi.org/10.1021/om3010838



Cytotoxicity of Ruthenium–Arene Complexes Containing β -Ketoamine Ligands

Riccardo Pettinari,* Claudio Pettinari, Fabio Marchetti, Catherine M. Clavel, Rosario Scopelliti, and Paul J. Dyson*

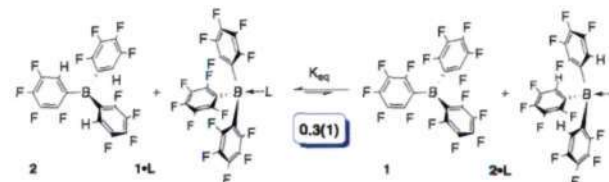
dx.doi.org/10.1021/om301115e



Comparative Lewis Acidity in Fluoroarylboranes: B(o- HC_6F_4)₃, B(p- HC_6F_4)₃, and B(C₆F₅)₃

Matthew M. Morgan, Adam J. V. Marwitz, Warren E. Piers,* and Masood Parvez

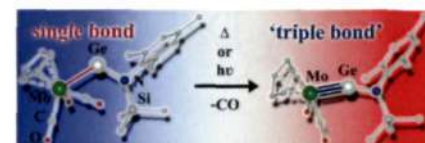
dx.doi.org/10.1021/om3011195



Utilizing Steric Bulk to Stabilize Molybdenum Aminogermylene and Aminogermylene Complexes

Jamie Hicks, Terrance J. Hadlington, Christian Schenk, Jiaye Li, and Cameron Jones*

dx.doi.org/10.1021/om301144h

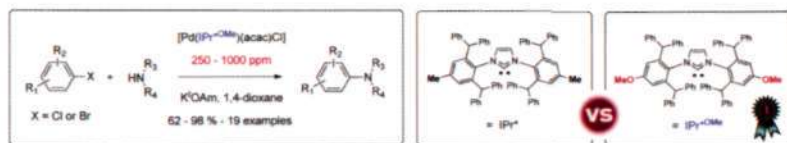


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dx.doi.org/10.1021/om3011867

[Pd(IPr^{OMe})(acac)Cl]: Tuning the N-Heterocyclic Carbene in Catalytic C–N Bond Formation
 Sebastien Meiries, Klaus Speck, David B. Cordes, Alexandra M. Z. Slawin, and Steven P. Nolan*



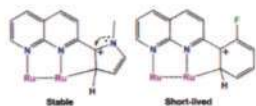
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dx.doi.org/10.1021/om301228h

Understanding C–H Bond Activation on a Diruthenium(I) Platform

Arup Sinha, Moumita Majumdar, Mithun Sarkar, Tapas Ghatak, and Jitendra K. Bera*



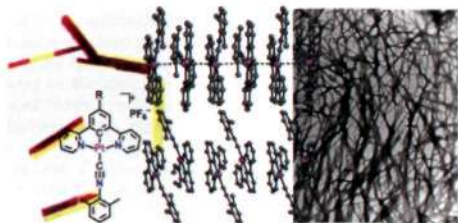
Notes

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dx.doi.org/10.1021/om300965b

Luminescent Pincer-Type Cyclometalated Platinum(II) Complexes with Auxiliary Isocyanide Ligands: Phase-Transfer Preparation, Solvatomorphism, and Self-Aggregation
 Yong Chen, Wei Lu, and Chi-Ming Che*



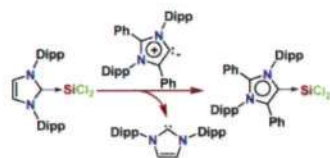
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dx.doi.org/10.1021/om301062d

Lewis Base Stabilized Group 14 Metallyenes

Amit Pratap Singh, Prinson P. Samuel, Kartik Chandra Mondal, Herbert W. Roesky,* Navdeep S. Sidhu, and Birger Dittrich*



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dx.doi.org/10.1021/om301149q

Reactivity Studies of Heteroleptic Silylenes PhC(NtBu)₂SiX (X = NPh₂, NMe₂) toward Selected Azides
 Ramachandran Azhakar, Herbert W. Roesky,* Julian J. Holstein, Kevin Pröpper, and Birger Dittrich*

