

ORGANOMETALLICS



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ON THE COVER: Once upon a time, an electron-deficient gold(III) complex, represented here as a noble aristocratic Au^0 , still retained his bohemian spirit, despite losing his electrons (Au^{3+}). Thus, when given the free choice between a new pair of shoes (i.e., transmetalation with boronic acids), which are either electron-rich and sophisticated or modest and unassuming, he fell for the latter, departing (towards reductive elimination) happily ever after. See the paper by Nevado et al. on pages 1328–1332.

Editor's Page

1327

[dx.doi.org/10.1021/om500235h](https://doi.org/10.1021/om500235h)
Award-Winning Organometallic Chemistry: The 2013 Werner Prize of the Swiss Chemical Society

John A. Gladysz



Communications

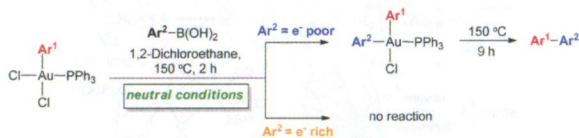
Cover Paper

1328

5

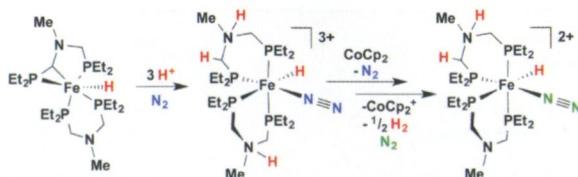
[dx.doi.org/10.1021/om400884s](https://doi.org/10.1021/om400884s)
A Neutral Gold(III)–Boron Transmetalation

Manuel Hofer, Enrique Gomez-Bengoia, and Cristina Nevado*



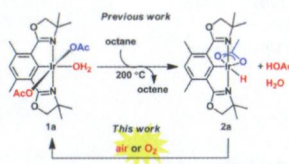
Proton and Electron Additions to Iron(II) Dinitrogen Complexes Containing Pendant Amines

Zachariah M. Heiden, Shentan Chen, Liezel A. Labios, R. Morris Bullock, Eric D. Walter, Elizabeth L. Tyson, and Michael T. Mock*



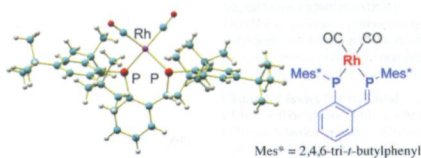
Regeneration of an Iridium(III) Complex Active for Alkane Dehydrogenation Using Molecular Oxygen

Kate E. Allen, D. Michael Heinekey, Alan S. Goldman, and Karen I. Goldberg*



Synthesis of a Rhodium Carbonyl Phosphaalkenyl–Phosphido Complex: A Phosphorus Congener of Schiff Base Type N,N'-Chelating Monoanionic Ligands

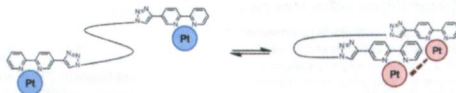
Teruyuki Matsumoto, Takahiro Sasamori,* Hideaki Miyake, and Norihiro Tokito*



Articles

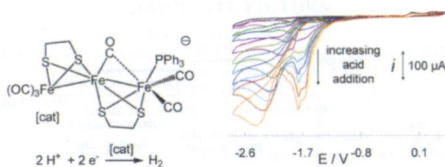
Tracking Intramolecular Interactions in Flexibly Linked Binuclear Platinum(II) Complexes

Ilona Stengel, Cristian A. Strassert, Luisa De Cola,* and Peter Bäuerle*



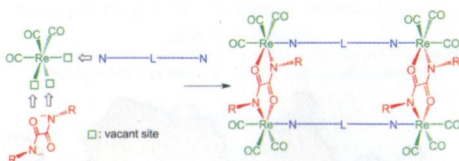
Bioinspired Hydrogenase Models: The Mixed-Valence Triiron Complex $[\text{Fe}_3(\text{CO})_7(\mu\text{-edt})_2]$ and Phosphine Derivatives $[\text{Fe}_3(\text{CO})_{7-x}(\text{PPh}_3)_x(\mu\text{-edt})_2]$ ($x = 1, 2$) and $[\text{Fe}_3(\text{CO})_5(\kappa^2\text{-diphosphine})(\mu\text{-edt})_2]$ as Proton Reduction Catalysts

Ahibur Rahman, Shishir Ghosh, David G. Unwin, Sucharita Basak-Modi, Katherine B. Holt,* Shariff E. Kabir,* Ebbe Nordlander, Michael G. Richmond, and Graeme Hogarth*



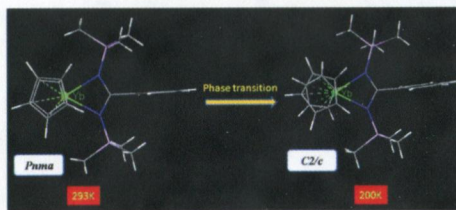
Synthesis and Spectroscopic and Structural Characterization of Oxamidato-Bridged Rhenium(I) Supramolecular Rectangles with Ester Functionalization

R. Nagarajaprakash, D. Divya, Buthanapalli Ramakrishna, and Bala. Manimaran*



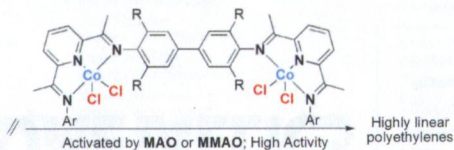
Syntheses, Structure, and Properties of Mixed Cp–Amidinate Rare-Earth-Metal(III) Complexes

Jun-Feng Liu, Fu-Xing Pan, Shuang Yao, Xue Min, Dongmei Cui, and Zhong-Ming Sun*



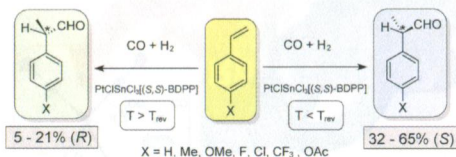
Biphenyl-Bridged 6-(1-Aryliminoethyl)-2-iminopyridylcobalt Complexes: Synthesis, Characterization, and Ethylene Polymerization Behavior

Qifeng Xing, Tong Zhao, Shizhen Du, Wenhong Yang, Tongling Liang, Carl Redshaw, and Wen-Hua Sun*



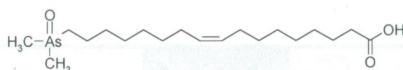
Influence of the 4-Substituents on the Reversal of Enantioselectivity in the Asymmetric Hydroformylation of 4-Substituted Styrenes with $\text{PtCl}(\text{SnCl}_3)[(2\text{S},4\text{S})\text{-BDPP}]$

Péter Pongrácz, Tamara Papp, László Kollár, and Tamás Kégl*



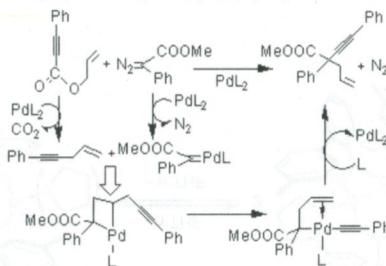
Synthesis and Characterization of Arsenolipids: Naturally Occurring Arsenic Compounds in Fish and Algae

Mojtaba S. Taleshi, Rune K. Seidler-Egdal, Kenneth B. Jensen, Tanja Schwerdtle, and Kevin A. Francesconi*



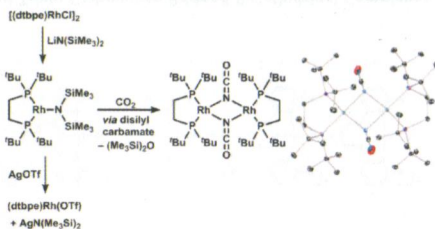
Theoretical Studies on a New Class of C–C Bond Formation: Palladium-Catalyzed Reactions of α -Diazocarbonyl Compounds with Allylic Esters

Hongliang Wang, Xu Yang, Yuxia Liu,* and Siwei Bi*



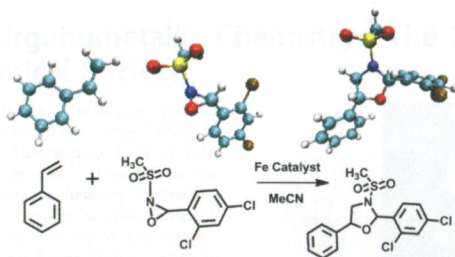
Synthesis and Reactivity of Three-Coordinate (dtbpe)Rh Silylamides: CO_2 Bond Cleavage by a Rhodium(I) Disilylamide

Matthew T. Whited,* Alex J. Kosanovich, and Daron E. Janzen



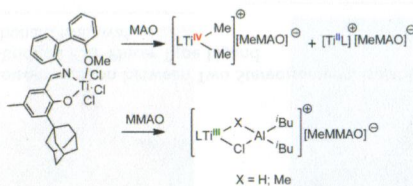
Density Functional Theory Study of the Mechanisms of Iron-Catalyzed Aminohydroxylation Reactions

Qinghua Ren,* Shuhui Guan, Xiaoyan Shen, and Jianhui Fang

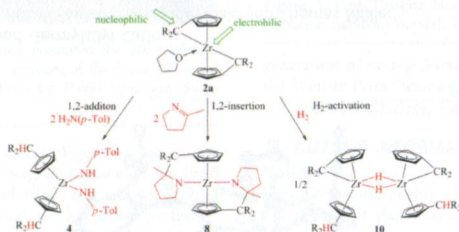


Selective Ethylene Trimerization by Titanium Complexes Bearing Phenoxy-Imine Ligands: NMR and EPR Spectroscopic Studies of the Reaction Intermediates

Igor E. Soshnikov, Nina V. Semikolenova, Jing Ma, Ke-Qing Zhao, Vladimir A. Zakharov, Konstantin P. Bryliakov, Carl Redshaw, and Evgenii P. Talsi*

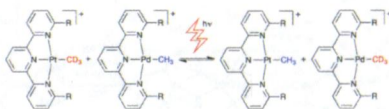
Synthesis and Reactivity of Bis(η^5 - η^1 -pentafulvene)zirconium Complexes

Hanna Ebert, Vanessa Timmermann, Tim Oswald, Wolfgang Saak, Marc Schmidtman, Marion Friedemann, Detlev Haase, and Rüdiger Beckhaus*

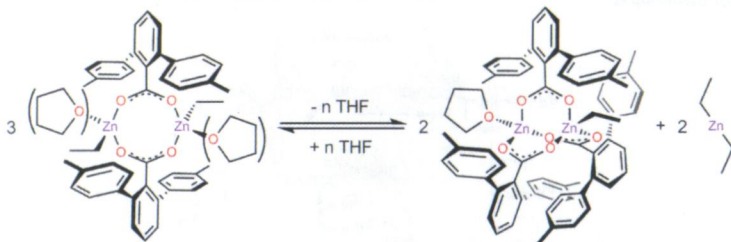


Light-Driven Methyl Exchange Reactions in Square-Planar Palladium(II) and Platinum(II) Complexes

Allan R. Petersen, Russell A. Taylor, Inmaculada Vicente-Hernández, Jasmin Heizer, Andrew J. P. White, and George J. P. Britovsek*

Conversion between Doubly and Triply Carboxylate Bridged Bis(ethylzinc) Complexes and Formation of the (μ -Oxo)tetrazinc Carboxylate $[Zn_4O(Ar^{TO}CO_2)_6]$

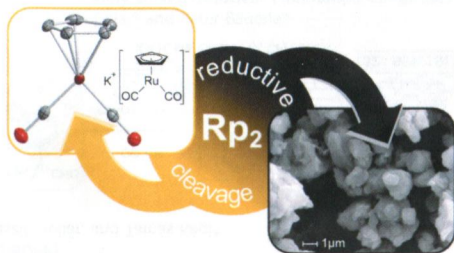
Mikael A. Minier and Stephen J. Lippard*

Manganese(II) Alkyl/ π -Allyl Complexes Resistant to Ligand Redistribution

Preeti Chadha, David J. H. Emslie,* and Hilary A. Jenkins

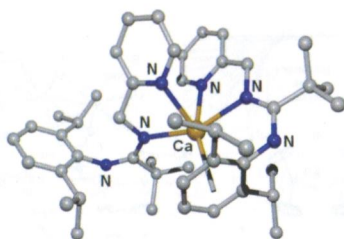
Revisiting the Synthesis and Elucidating the Structure of Potassium Cyclopentadienyldicarbonylruthenate, $K[CpRu(CO)_2]$

Kai F. Kalz, Nicole Kindermann, Sheng-Qi Xiang, Andreas Kronz, Adam Lange, and Franc Meyer*



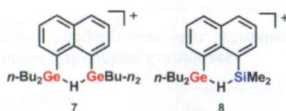
Structural Evidence of Strong Calcium– π Interactions to Aryl Substituents Stabilized by Coexistent Agostic Bonds to Alkyl Groups

Claas Loh, Susanne Seupel, Helmar Görls, Sven Krieck, and Matthias Westerhausen*



Hydrogen-Bridged Digermyl and Germysilyl Cations

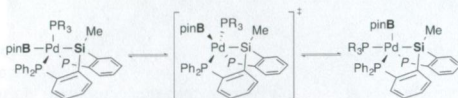
Natalie Kordts, Corinna Borner, Robin Panisch, Wolfgang Saak, and Thomas Müller*



Notes

Mechanistic Studies on the Stereoisomerization between Two Stereoisomeric, Isolable Five-Coordinate Borylpalladium(II) Complexes Bearing a Phenylene-Bridged PSiP-Pincer Type Ligand

Jun Takaya, Naohiro Kirai, and Nobuharu Iwasawa*



Turnstile Rotation between Two Isolable Five-coordinate Palladium Complexes