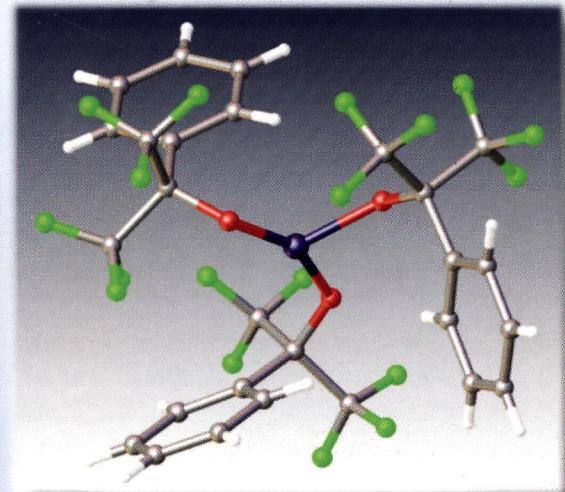
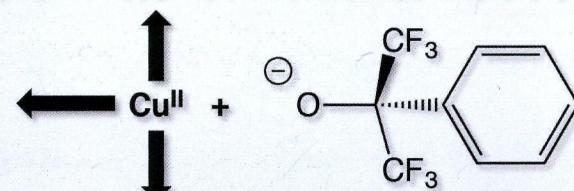
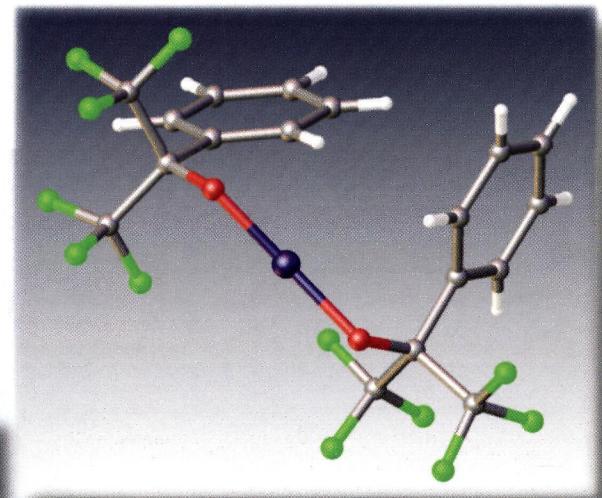
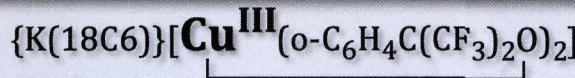
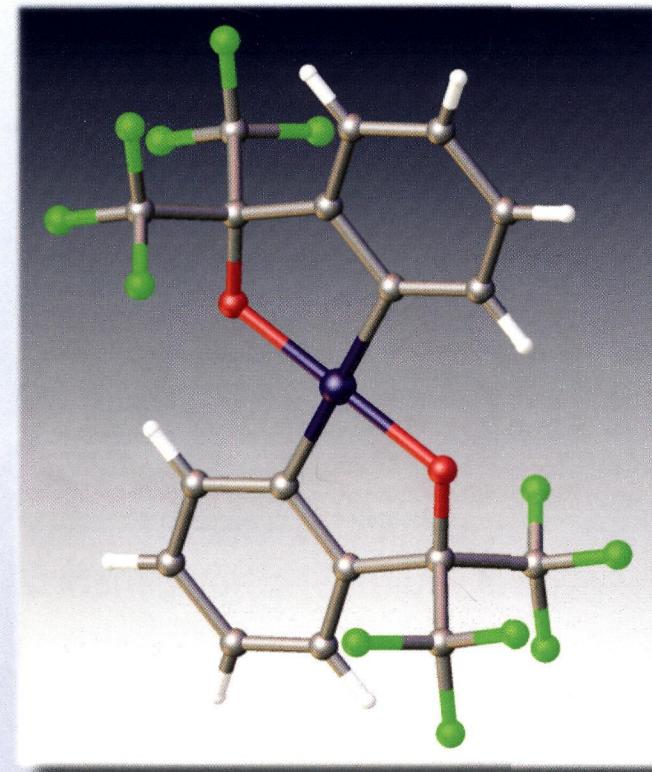


ORGANOMETALLICS

Three Products Three Oxidation States



JUNE 24, 2013

vA

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ORGANOMETALLICS

ON THE COVER: A new diamagnetic copper(III) complex, $\{K(18C6)\}[Cu(OC(C_6H_5)(CF_3)_2)_2]$, in which the ortho positions of the aryl groups are metalted, has been formed by reaction of $CuBr_2$ with the fluorinated alkoxide ligand $KOC(C_6H_5)(CF_3)_2$. Under slightly different reaction conditions, these starting materials can also form a copper(I) trimer, $\{K(18C6)\}[K_2\{Cu(OC(C_6H_5)(CF_3)_2)_3\}_3]$, as well as a copper(II) tris-alkoxide, $K[Cu(OC(C_6H_5)(CF_3)_2)_3]$. See the paper by Doerr et al. on pages 3429–3436.

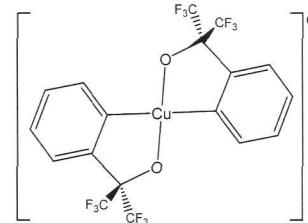
Articles

3429 

dx.doi.org/10.1021/om4000538

Room Temperature Stable Organocuprate Copper(III) Complex

Steven F. Hannigan, June S. Lum, Jeffrey W. Bacon, Curtis Moore, James A. Golen, Arnold L. Rheingold, and Linda H. Doerr*



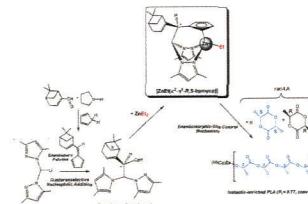
Communications

3437 

dx.doi.org/10.1021/om4003279

Efficient Synthesis of an Unprecedented Enantiopure Hybrid Scorpionate/Cyclopentadienyl by Diastereoselective Nucleophilic Addition to a Fulvene

Manuel Honrado, Antonio Otero,* Juan Fernández-Baeza,* Luis F. Sánchez-Barba,* Agustín Lara-Sánchez, Juan Tejeda, María P. Carrión, Jaime Martínez-Ferrer, Andrés Garcés, and Ana M. Rodríguez



Articles

3441

Syntheses and Properties of Dinuclear Group 6 Metal Complexes with the Zwitterionic Sulfur Donor Ligand Bis(*N,N*-diethylamino)carbeniumdithiocarboxylate

Tomoaki Sugaya, Takeshi Ohba, Fumiya Sai, Shigeru Mashima, Takashi Fujihara*, Kei Unoura, and Akira Nagasawa*

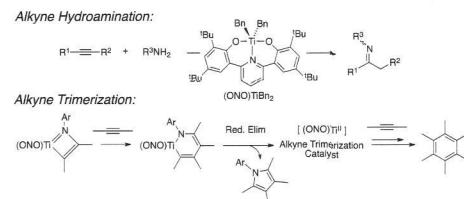


dx.doi.org/10.1021/om300831y

3451

Alkyne Hydroamination and Trimerization with Titanium Bis(phenolate)pyridine Complexes: Evidence for Low-Valent Titanium Intermediates and Synthesis of an Ethylene Adduct of Titanium(II)

Ian A. Tonks, Josef C. Meier, and John E. Bercaw*

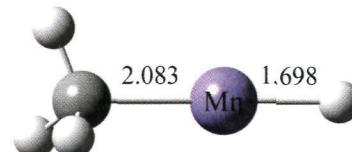


dx.doi.org/10.1021/om400080g

3458

Infrared Spectra of Manganese Insertion, Vinyl, and Cyclic Complexes Prepared in Reactions of Laser-Ablated Mn Atoms with Methane, Ethane, Ethyl Chloride, and 1,2-Dichloroethane

Han-Gook Cho and Lester Andrews*

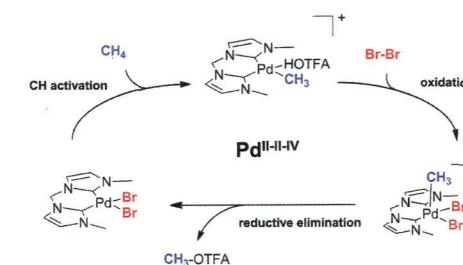


dx.doi.org/10.1021/om400217w

3469

Methane CH Activation by Palladium Complexes with Chelating Bis(NHC) Ligands: A DFT Study

Dominik Munz, Dirk Meyer, and Thomas Strassner*

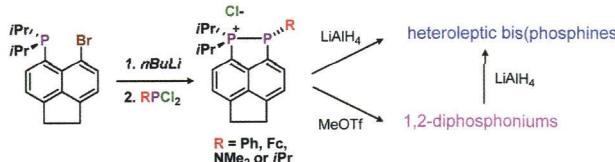


dx.doi.org/10.1021/om400232u

3481

peri-Substituted Phosphino-Phosphonium Salts: Synthesis and Reactivity

Matthew J. Ray, Alexandra M. Z. Slawin, Michael Bühl, and Petr Kilian*

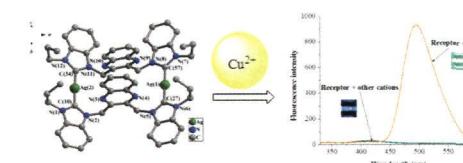


dx.doi.org/10.1021/om400259h

3493

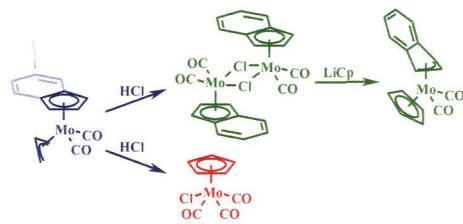
NHC Metal (Silver, Mercury, and Nickel) Complexes Based on Quinoxaline–Dibenzimidazolium Salts: Synthesis, Structural Studies, and Fluorescent Chemosensors for Cu²⁺ by Charge Transfer

Qing-Xiang Liu*, Zhao-Quan Yao, Xiao-Jun Zhao, Zhi-Xiang Zhao, and Xiu-Guang Wang



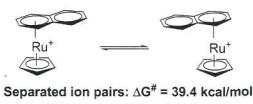
dx.doi.org/10.1021/om400277z

Toward the Synthesis of Indenyl Molybdenum Compound $[(\eta^3\text{-Ind})(\eta^5\text{-Cp})\text{Mo}(\text{CO})_2]$: Modified Compounds and Structure of a Previously Unrecognized Intermediate
Jan Honzíček,* Jaromír Vinklárek, Milan Erben, Jakub Lodinský, Libor Dostál, and Zdeňka Padělková



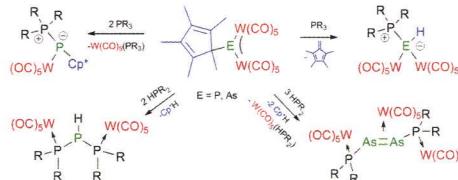
dx.doi.org/10.1021/om400305z

Influence of Ion Pairing in Inter-Ring Haptotropic Rearrangements in Cationic Cyclopentadienyl Complexes of Ruthenium with Naphthalene: A DFT Investigation
E. O. Fetisov, I. P. Gloriozov, Yu. F. Oprunenko,* J.-Y. Saillard,* and S. Kahal

Separated ion pairs: $\Delta G^\ddagger = 39.4 \text{ kcal/mol}$ Contact ion pairs: $\Delta G^\ddagger = 28.5 \text{ kcal/mol } (\text{PF}_6^-); 19.7 \text{ kcal/mol } (\text{BF}_4^-)$

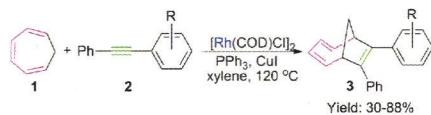
dx.doi.org/10.1021/om400335z

Versatile Reactivity of Bridged Pentelidene Complexes toward Secondary and Tertiary Phosphines
Markus Stubenhofer, Christian Kuntz, Michael Bodensteiner, Alexey Y. Timoshkin, and Manfred Scheer*



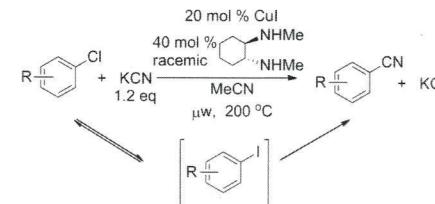
dx.doi.org/10.1021/om400357y

Rhodium-Catalyzed [6 + 2] Cycloaddition of Internal Alkynes with Cycloheptatriene: Catalytic Study and DFT Calculations of the Reaction Mechanism
Xinrui Zhang, Jingjing Wang, Hui Zhao, Haitao Zhao,* and Jianhui Wang*



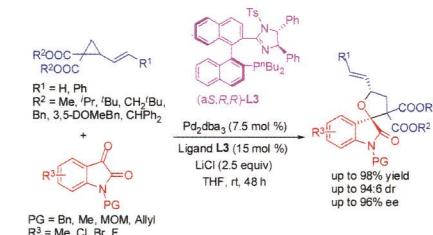
dx.doi.org/10.1021/om4003736

Cyanation of Aryl Chlorides Using a Microwave-Assisted, Copper-Catalyzed Concurrent Tandem Catalysis Methodology
Mary M. Coughlin, Colin K. Kelly, Shirley Lin,* and Amy H. Roy MacArthur*



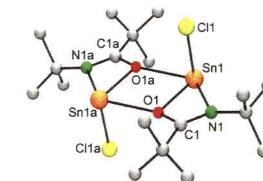
dx.doi.org/10.1021/om4004253

Diastereo- and Enantioselective Construction of Oxindole-Fused Spirotetrahydrofuran Scaffolds through Palladium-Catalyzed Asymmetric [3+2] Cycloaddition of Vinyl Cyclopropanes and Isatins
Liang-yong Mei, Yin Wei,* Qin Xu,* and Min Shi*



dx.doi.org/10.1021/om400473p

Organic Amides as Suitable Precursors to Stabilize Stannylenes
Lucía Álvarez-Rodríguez, Javier A. Cabeza,* Pablo García-Álvarez,* and Diego Polo



dx.doi.org/10.1021/om400476c

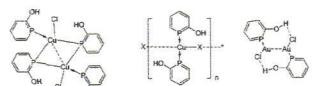
Notes

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[dx.doi.org/10.1021/om400207y](https://doi.org/10.1021/om400207y)

The Original Coordination Chemistry of 2-Phosphaphenol with Copper(I) and Gold(I) Halides

Yanli Mao, Kelvin Meng Hui Lim, Yongxin Li, Rakesh Ganguly, and Francois Mathey*

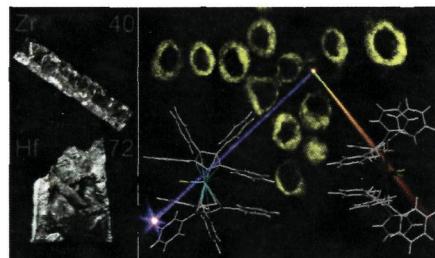


3566

[dx.doi.org/10.1021/om400212y](https://doi.org/10.1021/om400212y)

Simple Polyphenyl Zirconium and Hafnium Metallocene Room-Temperature Lumophores for Cell Imaging

Victoria E. Pritchard, Flora L. Thorp-Greenwood, Rebeca G. Balasingham, Catrin F. Williams, Benson M. Kariuki, James A. Platts,* Andrew J. Hallett, and Michael P. Coogan*

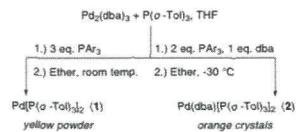


3570

[dx.doi.org/10.1021/om400335a](https://doi.org/10.1021/om400335a)

Capturing a Ghost. Synthesis and Structural Characterization of Pd(db₃)(P(*o*-Tol)₃)₂

Brennen A. Harding, Patrick R. Melvin, William Dougherty Jr., Scott Kassel, and Felix E. Goodson*



Supporting Information available via online article

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