/organometallics

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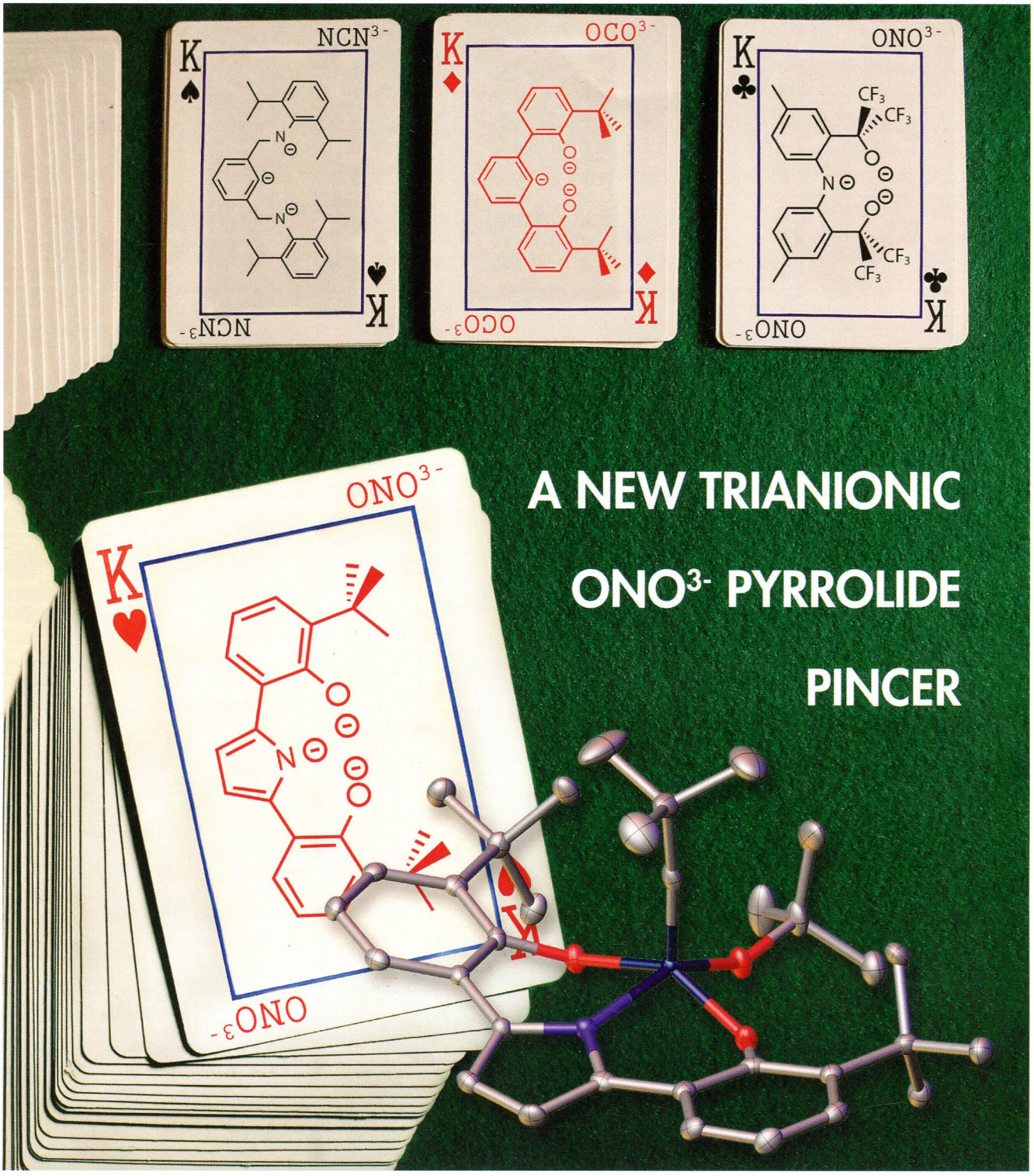
ORGANOMETALLICS



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ORGANOMETALLICS

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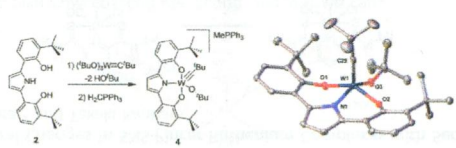
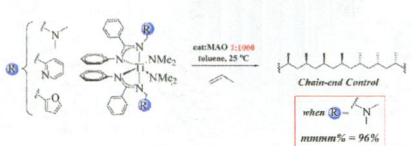
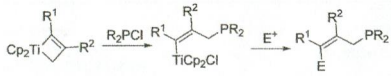
ON THE COVER: If you have played solitaire, then you can recall the sense of accomplishment and feeling of satisfaction when you complete the game. Synthesis relates to solitaire in that you can play all day and never complete the game. However, persistent effort pays off. In synthesis the satisfaction of creating something new is an addicting pleasure that compels you to play again and again. Presented in this work are the synthesis and characterization of a new pyrrolide-centered trianionic pincer ligand and its use in supporting an anionic tungsten-alkylidyne complex. The new pyrrolide ligand adds to the growing list of trianionic pincer ligands created by Veige et al. and now includes NCN^{3-}, OCO^{3-}, and ONO^{3-} derivatives. See the paper by Veige et al. on pages 836-839.

Editor's Page

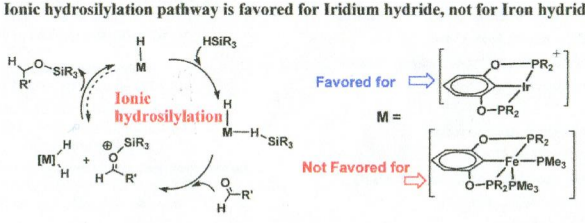
Communications

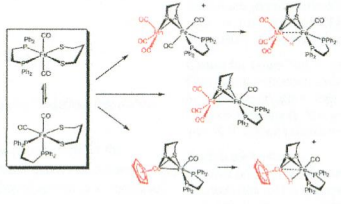


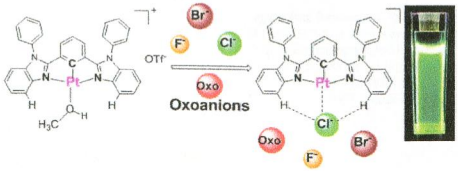




Articles



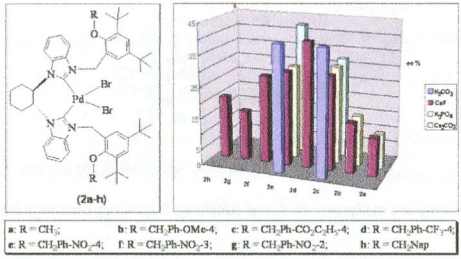




876 S dx.doi.org/10.1021/om400825e

Chiral 1,2-Cyclohexane-Bridged Bis-NHC Palladium Catalysts for Asymmetric Suzuki–Miyaura Coupling: Synthesis, Characterization, and Steric Effects on Enantiocontrol

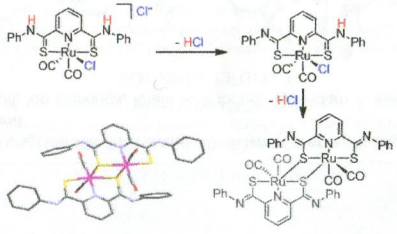
Yinle Li, Junkai Tang, Jun Gu, Quanrui Wang, Peipei Sun,* and Dao Zhang*



885 S dx.doi.org/10.1021/om400969p

Deprotonation-Induced Structural Changes in SNS-Pincer Ruthenium Complexes with Secondary Thioamide Groups

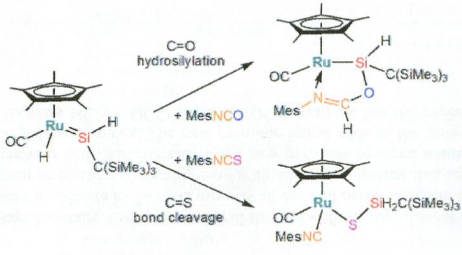
Yoko Komiyama, Junpei Kuwabara,* and Takaki Kanbara*



892 S dx.doi.org/10.1021/om401020g

Understanding the Reactivity Difference of Isocyanate and Isothiocyanate toward a Ruthenium Silylene Hydride Complex

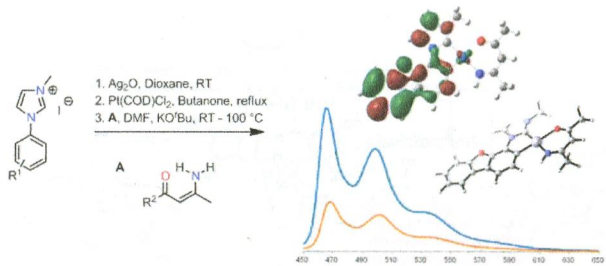
Hujun Xie and Zhenyang Lin*



898 S dx.doi.org/10.1021/om401023f

C^C* Cyclometalated Platinum(II) NHC Complexes with β-Ketoimine Ligands

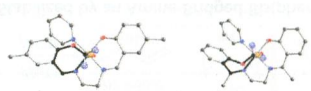
Alexander Tronnier, Alexander Poethig, Eberhardt Herdtweck, and Thomas Strassner*



909 S dx.doi.org/10.1021/om401038v

A Novel Series of Co^{III}(salen-type) Complexes Containing a Seven-Membered Metallacycle: Synthesis, Structural Characterization and Factors Affecting the Metallacyclization Rate

Patrizia Siega, Renata Dreos,* Giovanna Brancatelli, Ennio Zangrando, Claudio Tavagnacco, Višnja Vrdoljak, and Tomica Hrenar

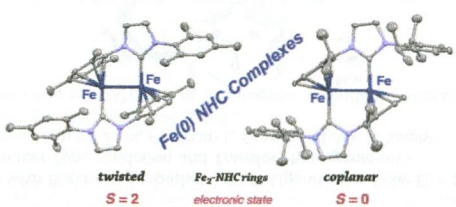


$[Co(III)(chelCH_2)(py)(H_2O)]^+$

921 S dx.doi.org/10.1021/om401039z

Dinuclear Iron(0) Complexes of N-Heterocyclic Carbenes

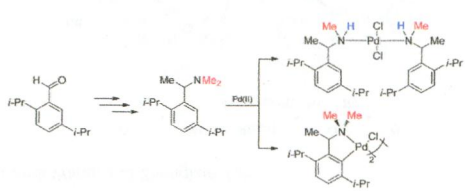
Takayoshi Hashimoto, Ryoko Hoshino, Tsubasa Hatanaka, Yasuhiro Ohki,* and Kazuyuki Tatsumi*



930 S dx.doi.org/10.1021/om401044z

Synthesis, Optical Resolution, and Stereochemical Properties of a Rationally Designed Chiral C–N Palladacycle

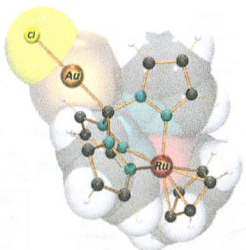
Jeanette See Leng Yap, Houguang Jeremy Chen, Yongxin Li, Sumod A. Pullarkat, and Pak-Hing Leung*



941 S dx.doi.org/10.1021/om4010498

Coinage Metal Complexes of Tris(pyrazolyl)methanide-Based Redox-Active Metalloligands

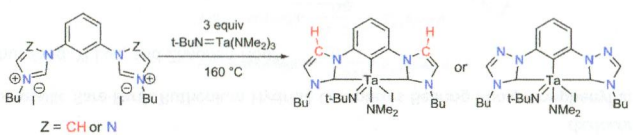
Sandra González-Gallardo, Istemi Kuzu, Pascual Oña-Burgos, Tanja Wolfer, Cong Wang, Karl W. Klinkhammer, Wim Klopper, Stefan Bräse, and Frank Breher*



952 S dx.doi.org/10.1021/om401063e

Synthesis, Characterization, and X-ray Molecular Structure of Tantalum CCC-N-Heterocyclic Carbene (CCC-NHC) Pincer Complexes with Imidazole- and Triazole-Based Ligands

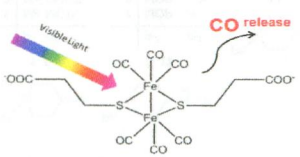
Theodore R. Helgert, T. Keith Hollis,* Allen G. Oliver, Henry U. Valle, Yunshan Wu, and Charles Edwin Webster



959 S dx.doi.org/10.1021/om401013a

The Dithiolate-Bridged Diiron Hexacarbonyl Complex $Na_2[(\mu\text{-}SCH_2CH_2COO)Fe(CO)_3]_2$ as a Water-Soluble PhotoCORM

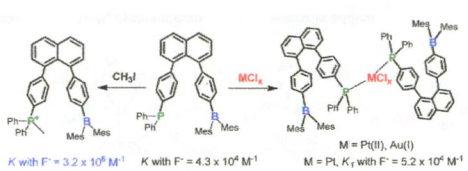
Hwa Tiong Poh, Bai Ting Sim, Tsz Sian Chwee, Weng Kee Leong, and Wai Yip Fan*



964 S dx.doi.org/10.1021/om4011406

A Dual-Emissive Phosphine–Borane Lewis Pair with a U-Shaped Linker: Impact of Methylation and Complexation on Fluoride Binding Affinity

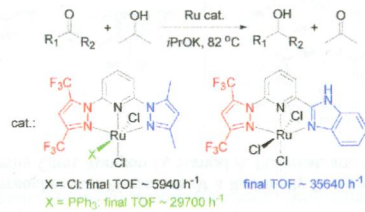
Yufei Li, Youngjin Kang, Jia-Sheng Lu, Ian Wyman, Soo-Byung Ko, and Suning Wang*



974 S dx.doi.org/10.1021/om401144u

Ruthenium Complex Catalysts Supported by a Bis(trifluoromethyl)pyrazolyl–Pyridyl-Based NNN Ligand for Transfer Hydrogenation of Ketones

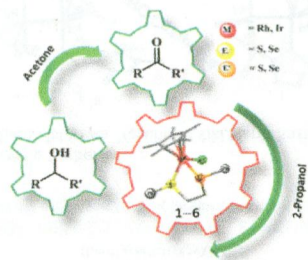
Wangming Du, Qingfu Wang, Liandi Wang, and Zhengkun Yu*



983 S dx.doi.org/10.1021/om401150s

(η^5-Cp*)Rh(III)/Ir(III) Complexes with Bis(chalcogenoethers) (E, E′ Ligands: E = S/Se; E′ = S/Se): Synthesis, Structure, and Applications in Catalytic Oppenauer-Type Oxidation and Transfer Hydrogenation

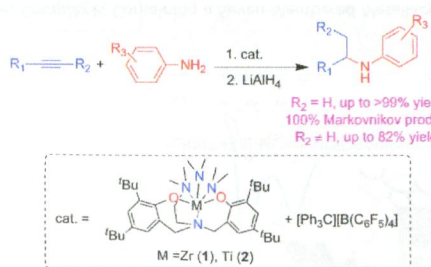
Om Prakash, Kamal Nayan Sharma, Hemant Joshi, Pancham L. Gupta, and Ajai K. Singh*



994 S dx.doi.org/10.1021/om401158a

Synthesis of Group 4 Metal Complexes Stabilized by an Amine-Bridged Bis(phenolato) Ligand and Their Catalytic Behavior in Intermolecular Hydroamination Reactions

Qiu Sun, Yaorong Wang, Dan Yuan,* Yingming Yao,* and Qi Shen

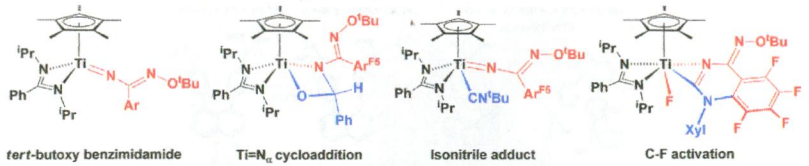


1002 S

dx.doi.org/10.1021/om4011752

Reactions of a Cyclopentadienyl–Amidinate Titanium Benzimidamido Complex

Laura R. Groom, Adam F. Russell, Andrew D. Schwarz, and Philip Mountford*

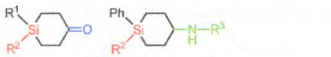


1020 S

dx.doi.org/10.1021/om401208y

Synthesis of 4-Silacyclohexan-1-ones and (4-Silacyclohexan-1-yl)amines Containing the Silicon Protecting Groups MOP (4-Methoxyphenyl), DMOP (2,4-Dimethoxyphenyl), or TMOP (2,4,6-Trimethoxyphenyl): Versatile Si- and C-Functional Building Blocks for Synthesis

Markus Fischer, Christian Burschka, and Reinhold Tacke*



	R^1	R^2
1	Me	MOP
2	Me	DMOP
3	Me	TMOP
4	Ph	MOP
5	Ph	DMOP
6	Ph	TMOP

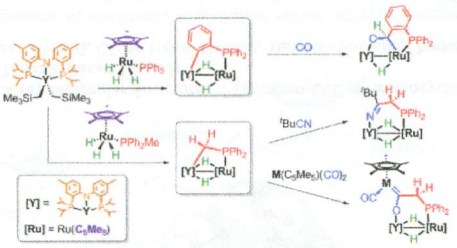
	R^2	R^3
7	MOP	H
8	MOP	*i*-Pr
9	DMOP	H
10	DMOP	*i*-Pr
11	TMOP	H
12	TMOP	*i*-Pr

1030 S

dx.doi.org/10.1021/om401216v

PNP-Ligated Heterometallic Rare-Earth/Ruthenium Hydride Complexes Bearing Phosphinophenyl and Phosphinomethyl Bridging Ligands

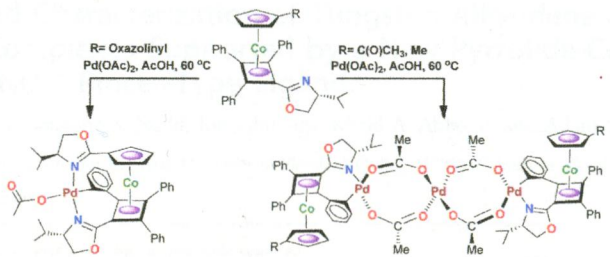
Wylie W. N. O, Xiaohui Kang, Yi Luo, and Zhaomin Hou*



1044 S dx.doi.org/10.1021/om500004n

New Chiral Palladacycles from an Unprecedented Cyclopalladation of Cyclobutadiene-Bound Phenyl Groups of Cobalt Sandwich Compounds

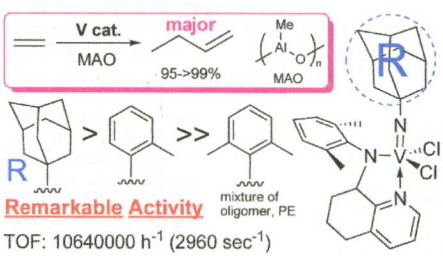
Jatinder Singh, Dheeraj Kumar, Nem Singh, and Anil J. Elias*



1053 S dx.doi.org/10.1021/om401119y

Synthesis of (Imido)vanadium(V) Complexes Containing 8-(2,6-Dimethylanilide)-5,6,7-trihydroquinoline Ligands: Highly Active Catalyst Precursors for Ethylene Dimerization

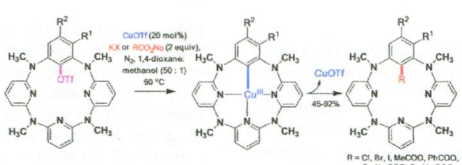
Xiao-Yan Tang, Atsushi Igarashi, Wen-Hua Sun, Akiko Inagaki, Jingyu Liu, Wenjuan Zhang, Yue-Sheng Li, and Kotohiro Nomura*



1061 S dx.doi.org/10.1021/om500046g

Copper(I)-Catalyzed Halogenation and Acyloxylation of Aryl Triflates through a Copper(I)/Copper(III) Catalytic Cycle

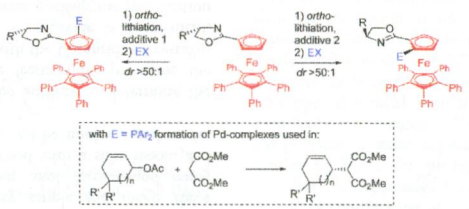
Chao Long, Liang Zhao, Jing-Song You, and Mei-Xiang Wang*



1068 (S) dx.doi.org/10.1021/om500049f

Sterically Demanding Planar Chiral P,N Ligands by Diastereoselective Ortho Lithiation of Pentaphenylferrocenyloxazolines and Their Application to Palladium-Catalyzed Substitutions with Cyclic Allylic Acetates

Marta Ayerbe Garcia, Wolfgang Frey, and René Peters*

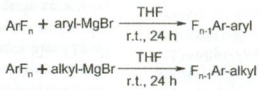


Notes

1079 (S) dx.doi.org/10.1021/om4011609

Transition-Metal-Free Synthesis of Fluorinated Arenes from Perfluorinated Arenes Coupled with Grignard Reagents

Yunqiang Sun, Hongjian Sun, Jiong Jia, Aiqin Du, and Xiaoyan Li*



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