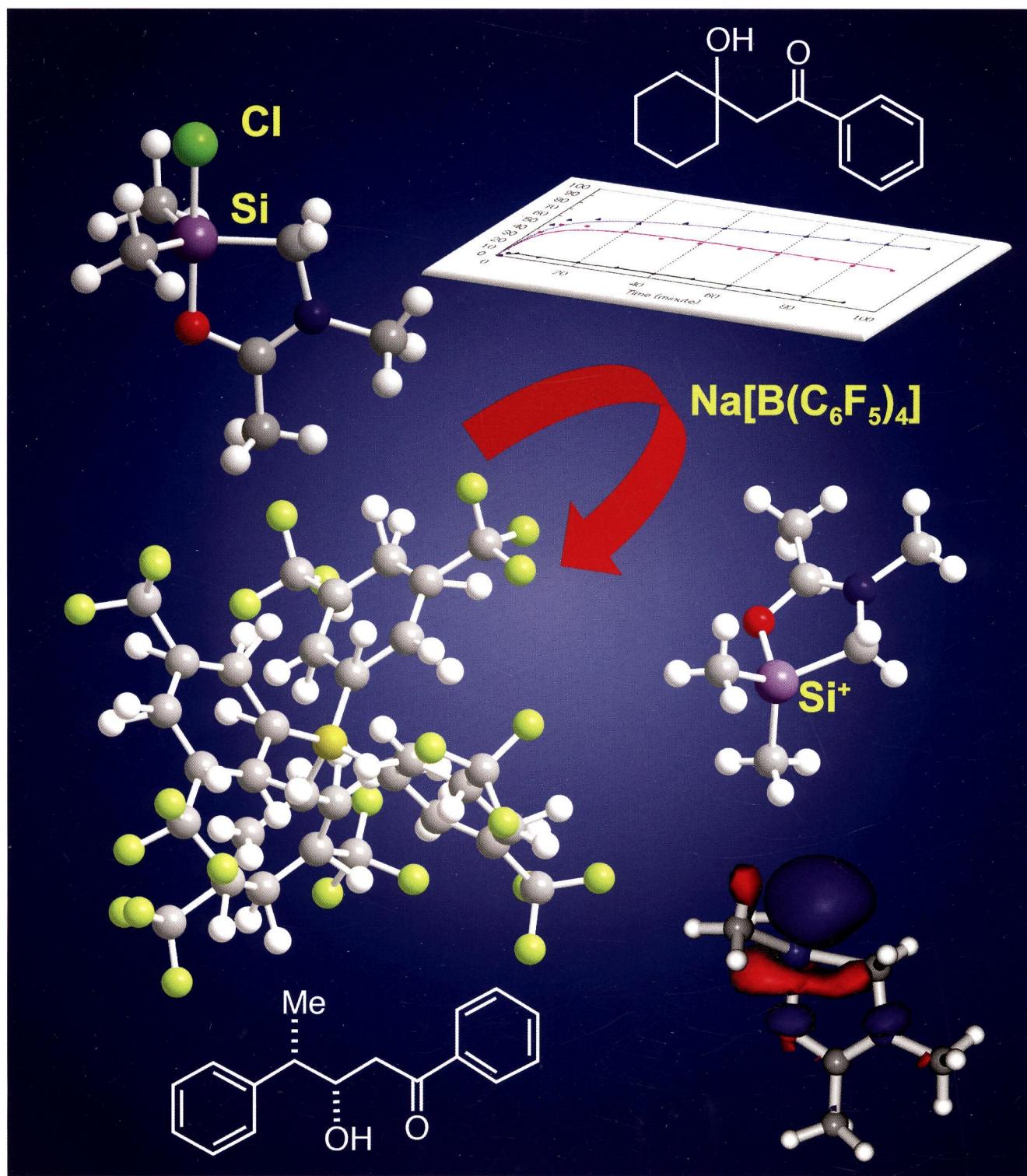


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ON THE COVER: The reaction of (*N*-amidomethyl)dimethylchlorosilane with metal salts of weakly coordinating anions, such as Na[TFPB] (TFPB: B[3,5-(CF₃)₂C₆H₃]₄⁻), gives five-membered ring silaoxazolinium salts in high yields. The X-ray crystal structure reveals that the silicon atom of the silaoxazolinium salt is nearly completely free from the coordination of anions. The silicon atom is strongly Lewis acidic and promotes the Mukaiyama aldol reaction of unactivated ketones, giving the corresponding aldol products in high yields. See the paper by Hatanaka et al. on pages 3575–3582.

Articles

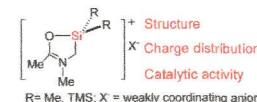
3575

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dx.doi.org/10.1021/om400017f

Synthesis of Silaoxazolinium Salts Bearing Weakly Coordinating Anions: Structures and Catalytic Activities in the Aldol Reaction

Anugu Chandra Sheker Reddy, Zhang Chen, Tohru Hatanaka, Tatsuya Minami, and Yasuo Hatanaka*



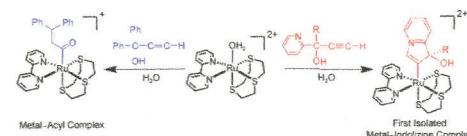
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dx.doi.org/10.1021/om400550w

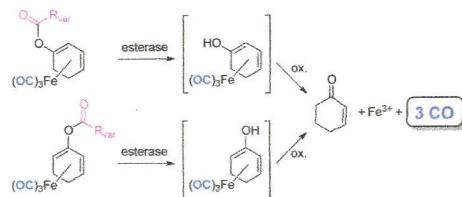
Isolation of Ruthenium–Indolizine Complexes: Insight into the Metal-Induced Cycloisomerization of Propargylic Pyridines
Lai-Hon Chung and Chun-Yuen Wong*



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Synthesis and Performance of Acyloxy-diene- $\text{Fe}(\text{CO})_3$ Complexes with Variable Chain Lengths as Enzyme-Triggered Carbon Monoxide-Releasing Molecules

Svetlana Botov, Eleni Stamellou, Steffen Romanski, Miguel Guttentag, Roger Alberto, Jörg-Martin Neudörfl, Benito Yard,* and Hans-Günther Schmalz*

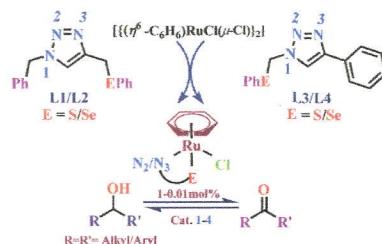


dx.doi.org/10.1021/om301233h

3595

Half-Sandwich Ruthenium(II) Complexes of Click Generated 1,2,3-Triazole Based Organosulfur/-selenium Ligands: Structural and Donor Site Dependent Catalytic Oxidation and Transfer Hydrogenation Aspects

Fariha Saleem, Gyandshwar Kumar Rao, Arun Kumar, Goutam Mukherjee, and Ajai K. Singh*

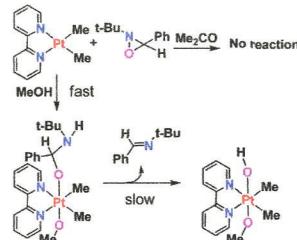


dx.doi.org/10.1021/om400057e

3604

Oxidation of a Dimethylplatinum(II) Complex with Oxaziridines: A Hemiaminal Intermediate but No Oxo Complex

Kyle R. Pellarin and Richard J. Puddephatt*

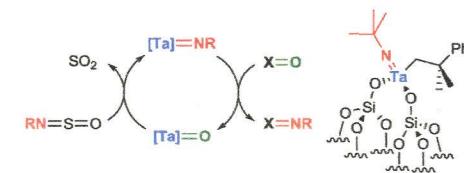


dx.doi.org/10.1021/om400079b

3611

Oxo/Imido Heterometathesis Reactions Catalyzed by a Silica-Supported Tantalum Imido Complex

Pavel A. Zhizhko, Anton A. Zhizhin, Olga A. Belyakova, Yan V. Zubavichus, Yury G. Kolyagin, Dmitry N. Zarubin,* and Nikolai A. Ustyryuk*

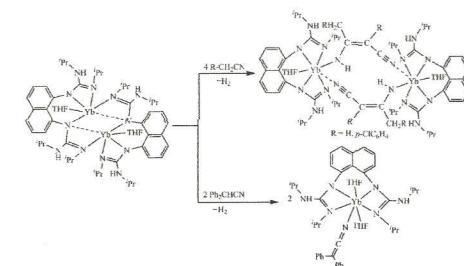


dx.doi.org/10.1021/om4001499

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Synthesis of a Naphthalene-Bridged Bis(guanidinato)ytterbium(II) Complex and an Unexpected Pathway in Its Reaction with CH_3CN , $p\text{-ClC}_6\text{H}_4\text{CH}_2\text{CN}$, and Ph_2CHCN

Chuanyong Wang, Xingmin Zhang, Mingqiang Xue,* Yong Zhang, and Qi Shen*

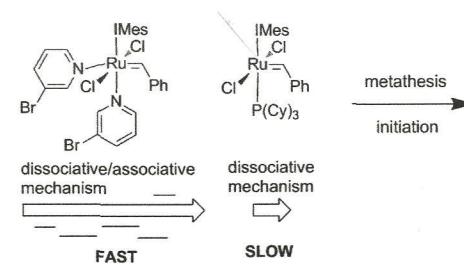


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Structural and Mechanistic Basis of the Fast Metathesis Initiation by a Six-Coordinated Ruthenium Catalyst

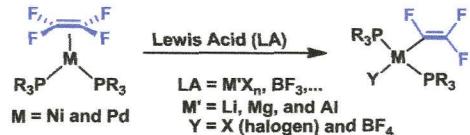
Bartosz Trzaskowski* and Karol Grela



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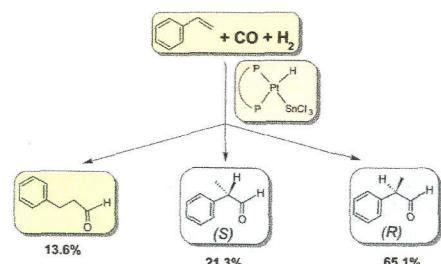
Carbon–Fluorine Bond Activation of Tetrafluoroethylene on Palladium(0) and Nickel(0): Heat or Lewis Acidic Additive Promoted Oxidative Addition

Masato Ohashi,* Mitsutoshi Shibata, Hiroki Saito, Tadashi Kambara, and Sensuke Ogoshi*



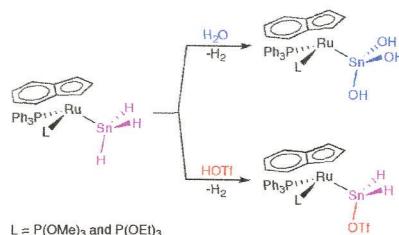
Mechanism of the Platinum/Tin-Catalyzed Asymmetric Hydroformylation of Styrene: A Detailed Computational Investigation of the Chiral Discrimination

Tamara Papp, László Kollár, and Tamás Kégl*



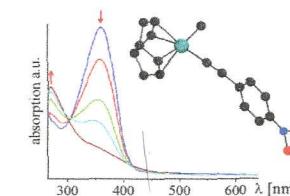
Preparation and Reactivity of Stannyll Complexes of Ruthenium(II) Stabilized by an Indenyl Ligand

Gabriele Albertin,* Stefano Antoniutti, Jesús Castro, and Sebastiano Da Lio



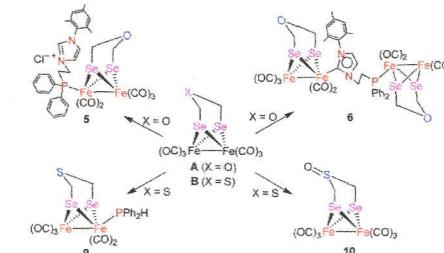
Strong Cytotoxicity of Organometallic Platinum Complexes with Alkynyl Ligands

Anna Lüning, Julia Schur, Laura Hamel, Ingo Ott, and Axel Klein*



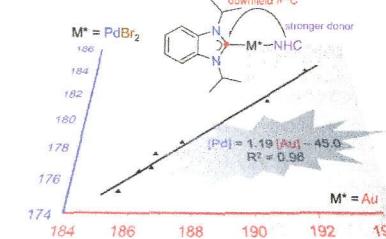
Synthesis, Structures, and Some Properties of Diiron Oxadiselenolate (ODSe) and Thiodiselenolate (TDSe) Complexes as Models for the Active Site of [FeFe]-Hydrogenases

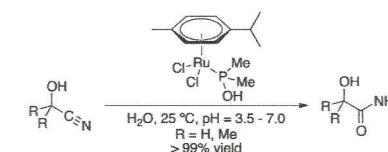
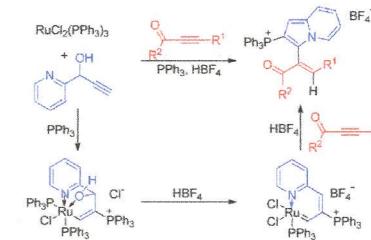
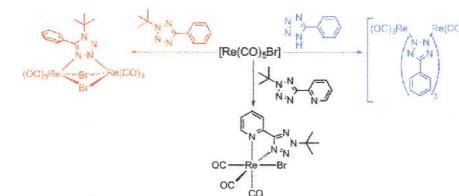
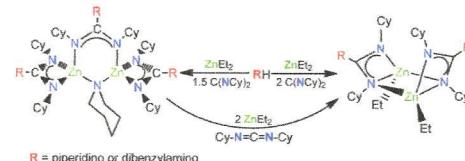
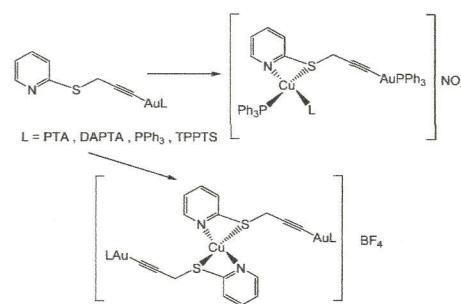
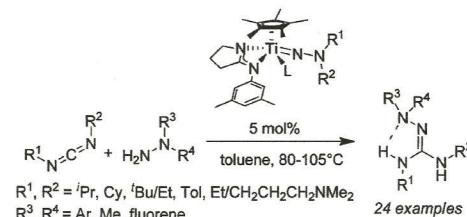
Li-Cheng Song,* Bin Gai, Zhan-Heng Feng, Zong-Qiang Du, Zhao-Jun Xie, Xiao-Jing Sun, and Hai-Bin Song



Gold and Palladium Hetero-Bis-NHC Complexes: Characterizations, Correlations, and Ligand Redistributions

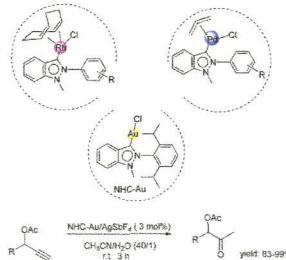
Shuai Guo, Haresh Sivaram, Dan Yuan, and Han Vinh Huynh*





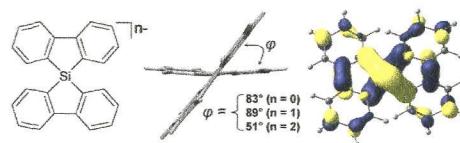
Indazolin-*s*-ylidene–N-Heterocyclic Carbene Complexes of Rhodium, Palladium, and Gold: Synthesis, Characterization, and Catalytic Hydration of Alkynes

Yang Zhou, Qingjie Liu, Weifeng Lv, Qingyu Pang, Rong Ben, Yong Qian,* and Jing Zhao*



Silicon in a Negatively Charged Shell: Anions of Spirosilabifluorene

Alexander V. Zabula,* Andrey Yu. Rogachev, Ilia A. Guzei, and Robert West



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Exploring the Limits of Catalytic Ammonia–Borane Dehydrogenation Using a Bis(*N*-heterocyclic carbene) Iridium(III) Complex

David J. Nelson, Byron J. Truscott, Jonathan D. Egbert, and Steven P. Nolan*

