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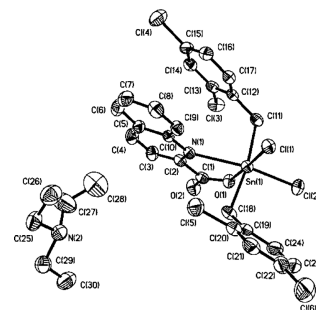
Communication

Han Dong Yin, Qi Bao Wang,
Sheng Cai Xue

J. Organomet. Chem. 690 (2005) 831

Synthesis and characterization of ionic organotin compounds $[R_2SnCl_2(2\text{-quin})]^- (HNEt_3)^+$ and crystal structures of $[(2,4\text{-}Cl_2\text{-}C_6H_3CH_2)_2SnCl_2(2\text{-quin})]^- (HNEt_3)^+$

Eight ionic organotin compounds $[R_2SnCl_2(2\text{-quin})]^- (HNEt_3)^+$ have been synthesized and their structures have been characterized by elemental analysis, IR and multinuclear NMR (1H , ^{13}C , ^{119}Sn) spectroscopies. The structure of $[(2,4\text{-}Cl_2\text{-}C_6H_3CH_2)_2SnCl_2(2\text{-quin})]^- (HNEt_3)^+$ (**8**), has been determined by X-ray diffraction study.



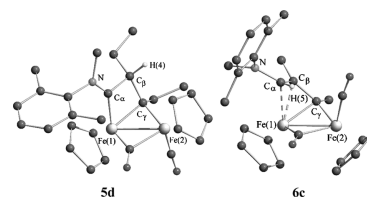
Regular papers

Vincenzo G. Albano, Luigi Busetto,
Fabio Marchetti, Magda Monari,
Stefano Zacchini, Valerio Zanotti

J. Organomet. Chem. 690 (2005) 837

Hydride addition at μ -vinyliminium ligand obtained from disubstituted alkynes

$NaBH_4$ gives addition at the bridging vinyliminium ligand in the diiron complexes $[Fe_2\{\mu\text{-}\eta^1\text{-}\eta^3\text{-}C_\gamma(R')=C_\beta(R'')C_\alpha=N(Me)(R)\}(\mu\text{-CO})(CO)(Cp)_2][SO_3CF_3]$ (R' and R'' = alkyl or aryl substituents, R = Me, CH_2Ph or Xyl). Depending on the nature of these substituents and on the geometry of the parent complexes *cis* or *trans*, H^- addition occurs selectively at the iminium carbon (C_α) or at the adjacent C_β position, affording complexes of the type **5d** or **6a**, respectively.

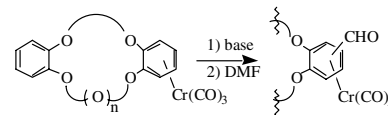


Abir Ben Hadj Amor, Siden Top
Faouzi Meganem, Gérard Jaouen,

J. Organomet. Chem. 690 (2005) 847

Selective functionalization of crown ethers via arene chromium tricarbonyl complexes

The complexation of the crown ethers dibenzo-16-crown-4, dibenzo-18-crown-5 and a diaryl polyether by the chromium tricarbonyl group permit exclusive functionalization of the complexed ring. CHO and CH_2OH functionalities were introduced ortho to the ether group.

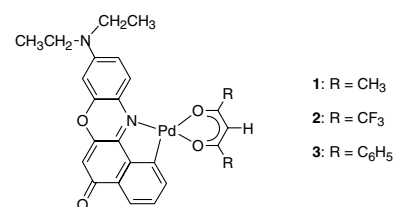


**Massimo La Deda, Mauro Ghedini,
Iolinda Aiello, Teresa Pugliese,
Francesco Barigelletti, Gianluca Accorsi**

J. Organomet. Chem. 690 (2005) 857

Organometallic emitting dyes: Palladium(II)
nile red complexes

The Nile Red dye, H(RN), forms red-emitting cyclometalated R_2 -disubstituted-acetylacetonato Pd(II) complexes (**1–3**; $R = CH_3$, CF_3 , C_6H_5 respectively); their photophysical properties were tested in various solvents. In particular, complex **2** in cyclohexane solution shows red emission with $\Phi = 0.50$.

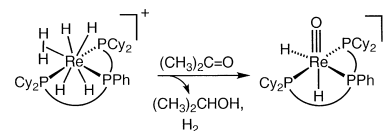


Dean E. Rende, Andrew Wojcicki,

J. Organomet. Chem. 690 (2005) 862

Mechanistic studies on reaction of $[ReH_4(\eta^2-H_2)(Cyttp)]^+$ with ketones to give the hydrido-oxo complex $[ReH_2(O)(Cyttp)]^+$ (Cyttp = $PhP(CH_2CH_2CH_2PCy_2)_2$)

Reaction of $[ReH_4(\eta^2-H_2)(Cyttp)]OTf$ with ketones ($R_2C=O$) yields $[ReH_2(O)(Cyttp)]OTf$ and 2 equiv. of the alcohol R_2CHOH . On the basis of analysis of the gas evolved and various organic products formed, as well as from isotopic labeling experiments, a mechanism is proposed which involves (a) reduction of rhenium(V) to rhenium(III) and conversion of 1 equiv. of ketone to alcohol by hydride ligands, and (b) reoxidation of rhenium(III) to rhenium(V) and conversion of another equivalent of ketone to alcohol by hydrogen originating from the ketonic R groups.

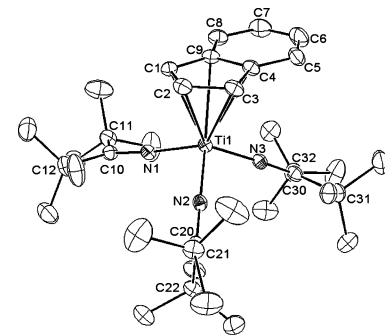


**Ana M. Martins, M. Mercês Marques,
José R. Ascenso, Alberto R. Dias,
M. Teresa Duarte, Anabela C. Fernandes,
Susete Fernandes, M. João Ferreira,
Inês Matos, M. Conceição Oliveira,
Sandra S. Rodrigues, Claire Wilson**

J. Organomet. Chem. 690 (2005) 874

Titanium and zirconium ketimide complexes:
synthesis and ethylene polymerisation
catalysis

New ketimide titanium compounds, $Ti(N=C'Bu_2)_3X$ ($X = Cl, Cp, Ind$) and $Ti(N=C'Bu_2)_4$ and the zirconium complex $CpZr(N=C'Bu_2)_2Cl$ are described. When activated by MAO, all compounds are ethylene polymerisation catalysts. The most active catalyst is $CpZr(N=C'Bu_2)_2Cl$, with an activity of 2.7×10^5 kg/(molZr [E] h). Titanium complexes are less active by about two orders of magnitude.

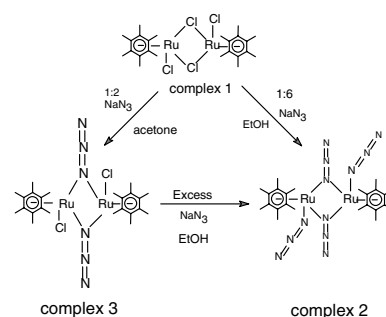


**P. Govindaswamy, Patrick J. Carroll,
Yurij A. Mozharivskij,
Mohan Rao Kollipara,**

J. Organomet. Chem. 690 (2005) 885

Syntheses and characterization of $[(\eta^6-C_6Me_6)Ru(\mu-N_3)(X)]_2$ ($X = N_3$ and Cl) complexes and their reactions towards mono- and bidentate ligands

The reaction of $[(\eta^6-C_6Me_6)Ru(\mu-Cl)Cl]_2$ **1** with sodium azide in various concentrations generates versatile orange-colored dimeric complexes $\{[(\eta^6-C_6Me_6)Ru(\mu-N_3)(N_3)]_2\}$ **2** and $\{[(\eta^6-C_6Me_6)Ru(\mu-N_3)(Cl)]_2\}$ **3**. These compounds undergo a variety of substitution reactions with neutral ligands to afford mononuclear and binuclear bridged complexes.

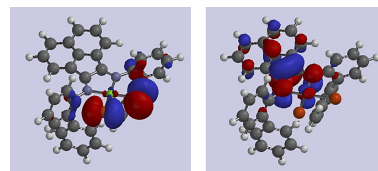


Susete Fernandes, Ana Soares,
Francisco Lemos, M.A.N.D.A. Lemos,
João F. Mano, Richard J. Maldanis,
Marvin D. Rausch, James C.W. Chien,
Maria M. Marques,

J. Organomet. Chem. 690 (2005) 895

Copolymerization of ethylene/unsaturated alcohols using nickel catalysts: effect of the ligand on the activity and comonomer incorporation

Three nickel complexes were studied in homo-, co- and terpolymerization of ethylene and propylene with polar monomers. In order to understand the effect of the ligand in the activity and rate of comonomer incorporation some theoretical studies were performed. Good agreement was found between the computed parameters and the experimental results.

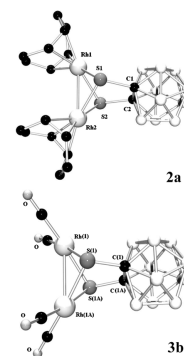


Shuyi Cai, Xiufeng Hou, Lin-Hong Weng,
Guo-Xin Jin,

J. Organomet. Chem. 690 (2005) 910

Binuclear complexes of rhodium (I) bridged by 1,2-dicarba-*closo*-dodecaborane-1,2-dichalcogenolato ligands: molecular structures of the complexes $[\text{Rh}_2(\text{COD})_2(\mu_2\text{-E}_2\text{C}_2\text{-}(\text{B}_{10}\text{H}_{10}))]$ [E = S, Se] and $[\text{Rh}_2(\text{CO})_4(\mu_2\text{-E}_2\text{C}_2\text{-}(\text{B}_{10}\text{H}_{10}))]$ [E = S, Se]

The complexes $[\text{Rh}_2(\text{COD})_2(\mu_2\text{-E}_2\text{C}_2\text{-}(\text{B}_{10}\text{H}_{10}))]$ [E = S (**2a**), Se (**2b**)] and $[\text{Rh}_2(\text{CO})_4(\mu_2\text{-E}_2\text{C}_2\text{-}(\text{B}_{10}\text{H}_{10}))]$ [E = S (**3a**), Se (**3b**)] have been synthesized from the reactions of $[\text{Rh}(\text{COD})\text{Cl}]_2$ and $[\text{Rh}(\text{CO})_2\text{Cl}]_2$ with $\text{Li}_2\text{E}_2\text{C}_2(\text{B}_{10}\text{H}_{10})$ (E = S, Se). The molecular structures of **2a**, **2b** and **3a** have been determined by X-ray crystallography.

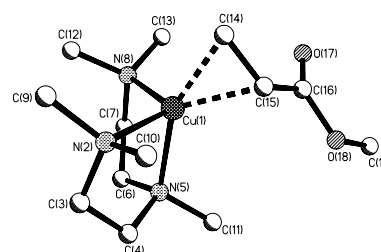


Wade A. Braunecker, Tomislav Pintauer,
Nicolay V. Tsarevsky, Guido Kickelbick,
Krzysztof Matyjaszewski,

J. Organomet. Chem. 690 (2005) 916

Towards understanding monomer coordination in atom transfer radical polymerization: synthesis of $[\text{Cu}^I(\text{PMDETA})(\pi\text{-M})][\text{BPh}_4]$ (M = methyl acrylate, styrene, 1-octene, and methyl methacrylate) and structural studies by FT-IR and ^1H NMR spectroscopy and X-ray crystallography

Four Cu^I complexes were isolated with coordinated monomers, $[\text{Cu}^I(\text{PMDETA})(\pi\text{-M})][\text{BPh}_4]$ (M = methyl acrylate, styrene, 1-octene, and methyl methacrylate). The Cu^I -olefin complexes were characterized by FT-IR spectroscopy and single crystal X-ray crystallographic analysis. The π -nature of the bonding was confirmed by ^1H NMR spectroscopy.

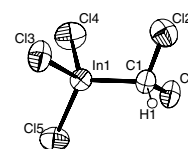


Clovis Peppe, Dennis G. Tuck,
Fabiano M. de Andrade, José A. Nóbrega,
Martin A. Brown, Robert A. Burrow

J. Organomet. Chem. 690 (2005) 925

Structure and reactivity of derivatives of dihalogenomethylindium(III) halides, X_2InCHX_2 (X = Cl, Br, I)

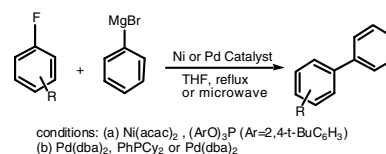
The reactions of indium monohalides, InX with haloforms, CHX_3 , in 1,4-dioxane (diox), produce the $\text{X}_2\text{In}(\text{diox})_n\text{CHX}_2$ (X = Cl, Br, $n = 1$; X = I, $n = 2$) compounds. The ionic derivative $[(\text{C}_2\text{H}_5)_4\text{N}][\text{Cl}_3\text{InCHCl}_2]$ was prepared and its crystal structure established by X-ray means. The dihalogenomethyl derivatives react with strong electrophiles suggesting dihalogenomethyl substituents of mild nucleophilic character, while the carbon atoms in the halogenomethyl derivatives are electrophilic.



John W. Dankwardt,*J. Organomet. Chem.* 690 (2005) 932

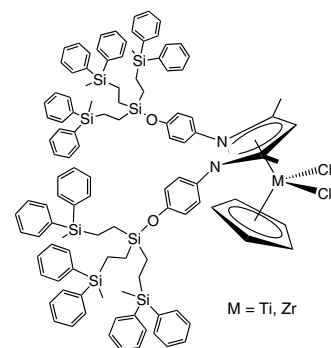
Transition metal catalyzed cross-coupling of aryl Grignard reagents with aryl fluorides via Pd- or Ni-activation of the C–F bond: an efficient synthesis of unsymmetrical biaryls – application of microwave technology in ligand and catalyst screening

Biaryl compounds are prevalent in both nature and in active pharmaceutical ingredients. The palladium and nickel catalyzed cross-coupling of aryl Grignard reagents with aryl fluorides reported herein affords moderate to excellent yields of the corresponding unsymmetrical biaryls. In addition, the first example of a biaryl cross-coupling utilizing unactivated aryl fluorides under phosphine free palladium conditions is reported. Microwave technology allowed rapid optimization of catalyst systems, which identified several ligands for this cross-coupling reaction.

**Román Andrés, Ernesto de Jesús, F. Javier de la Mata, Juan C. Flores, Rafael Gómez***J. Organomet. Chem.* 690 (2005) 939

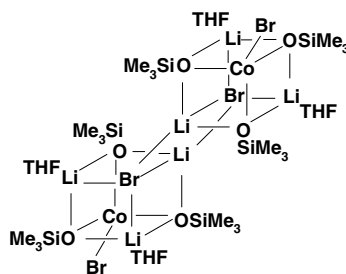
Dendritic β-diketiminato titanium and zirconium complexes: synthesis and ethylene polymerisation

A β-diketiminato ligand has been incorporated to the focal point of two carbosilane dendrons, and used for the preparation of the corresponding cyclopentadienyl(β-diketiminato)titanium and zirconium complexes.

**Ashrafolmolouk Asadi, Colin Eaborn, Michael S. Hill, Peter B. Hitchcock, J. David Smith***J. Organomet. Chem.* 690 (2005) 944

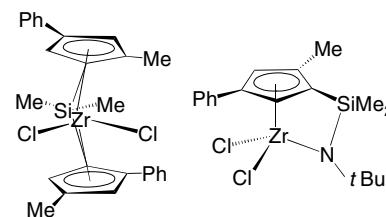
Synthesis and crystal structures of some cobalt halide derivatives containing alkyl or silanolato groups

The Grignard analogue $[(\{2-C_5H_4N\}Me_2Si) - (Me_3Si)_2CCoCl]_2(2)$ and the novel lithium silanolatocobaltates $Li(THF)_2(\mu-Br)_2Co(\mu-OSiMe_3)_2Co(\mu-Br)_2Li(THF)_2(4)$ and $[LiBr\{Li(THF)_2\}_2CoBr(OSiMe_3)_3]_2(5)$ form dimeric molecules in the crystalline state. Below 200 K there are significant anti-ferromagnetic interactions between the cobalt centres in **4**. In **5** two cubane-like fragments containing silanolato bridges are linked together through a Li_2Br_2 ring.

**Gema Martínez, Pascual Royo, Eberhardt Herdtweck***J. Organomet. Chem.* 690 (2005) 952

Synthesis and characterization of methyl-phenyl-substituted cyclopentadienyl zirconium complexes

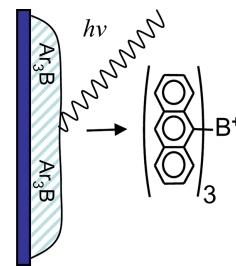
The synthesis and characterization of the monocyclopentadienyl zirconium complex $[Zr(\eta^5-1-Ph-3-Me-C_5H_3)Cl_3]$, the dimethylsilyl-bridged *ansa*-zirconocene dichloride $[Zr\{\eta^5-2-Me-4-Ph-C_5H_2\}SiMe_2(\eta^5-2-Ph-4-Me-C_5H_2)\}Cl_2]$ and the cyclopentadienylsilyl-η-amido dichloro and dialkyl complexes $[Zr\{\eta^5-2-Me-4-Ph-C_5H_2(SiMe_2-\eta-Nt-Bu)\}-X_2]$ (X = Cl, Me, CH₂Ph) are described. The silyl-η-amido complex activated with MAO is an efficient catalyst for ethene and propene polymerization.



Brian G. Ramsey, Mark E. Bier*J. Organomet. Chem.* 690 (2005) 962

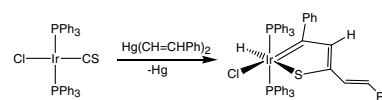
A laser desorption ionization mass spectrometry investigation of triarylboranes and tri-9-anthrylborane photolysis products

Laser desorption ionization (LDI) mass spectrometry of tri-9-anthrylborane (Anth₃B) photolysis products confirm 9,9'-dianthryl as the major product and are consistent with anthrylborylene formation. LDI mass spectra of several arylboranes yield ions in good yield and for Anth₃B, evidence of AnthB: intervention.

**Guo-Liang Lu, Warren R. Roper, L. James Wright, George R. Clark***J. Organomet. Chem.* 690 (2005) 972

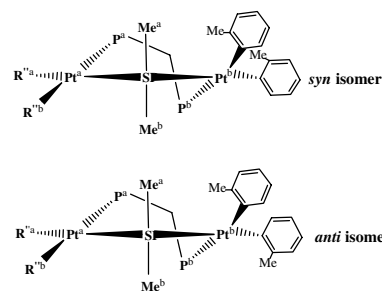
A 2-iridathiophene from reaction between IrCl(CS)(PPh₃)₂ and Hg(CH=CHPh)₂

Reaction between IrCl(CS)(PPh₃)₂ and Hg(CH=CHPh)₂ leads to the 2-iridathiophene, Ir[SC₃H(Ph-3)(CH=CHPh-5)]HCl(PPh₃)₂, whereas reaction between IrCl(CS)(PPh₃)₂ and Hg(CH=CPh₂)₂ leads to both the coordinatively unsaturated 1-iridaindene, Ir[C₈H₅(Ph-3)]Cl(PPh₃)₂, and the chelated dithiocarboxylate complex, Ir(κ²-S₂CCH=CPh₂)Cl(CH=CPh₂)(PPh₃)₂.

**Majid Hashemi, Mehdi Rashidi***J. Organomet. Chem.* 690 (2005) 982

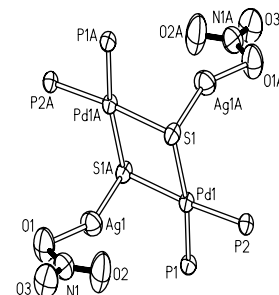
The steric effect of *o*-tolyl ligand on the fluxionality behavior of some binuclear organoplatinum(II) complexes with bis(diphenylphosphino)methane as bridging ligand

A series of binuclear organoplatinum(II) complexes of general formula *cis,cis*-[R₂Pt(μ-SMe₂)(μ-dppm)Pt(*o*-MeC₆H₄)₂] were prepared and characterized by multinuclear NMR spectroscopy. Each of these complexes was shown to exist as a mixture of *syn* and *anti* isomers.

**Guangming Li, Chi-Keung Lam, Sheau W. Chien, Thomas C.W. Mak, T.S. Andy Hor***J. Organomet. Chem.* 690 (2005) 990

Inter- and hetero-metallic assembly of palladium sulfide aggregates: crystal and molecular structures of [InPd₂Cl₃(dppf)₂(μ₃-S)₂] · 3CH₂Cl₂ and [Ag₂Pd₂(NO₃)₂(dppf)₂(μ₃-S)₂] · 2CH₂Cl₂

Each sulfide site of Pd₂(dppf)₂(μ-S)₂ (dppf = 1,1'-bis(diphenylphosphino) ferrocene) captures an AgNO₃ entity, thus resulting in a flat {Pd₂S₂} core functionalized by silver. Similar assemblies can be extended to the *p*-block systems such as In(III), resulting in an array of intermetallic structures.

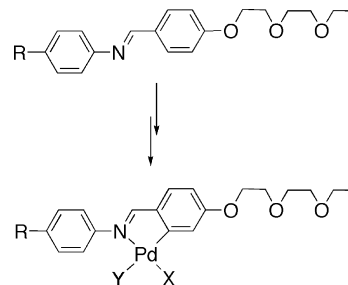


M.J. Baena, J. Buey, P. Espinet, C.E. García-Prieto

J. Organomet. Chem. 690 (2005) 998

The effect of polyether terminal chains in the liquid crystalline behavior of *ortho*-palladated complexes

Orthopalladated complexes derived from imines with polyether chains display liquid crystal behavior and show improved properties compared to related compounds with alkoxy chains. The transport properties of the complexes are modest, but better than for the free imines.

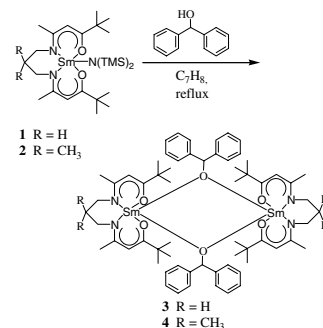


Steven A. Schuetz, Elizabeth A. Bowman, Carter M. Silvernail, Victor W. Day, John A. Belot

J. Organomet. Chem. 690 (2005) 1011

Dimeric samarium(III) alkoxides bearing N_2O_2 tetradentate Schiff bases and their utility for the catalytic epoxidation of *trans*-chalcone

This contribution details the synthesis, crystallographic study and catalytic activity of two dimeric lanthanide complexes bearing saturated Schiff bases and μ -benzhydrol anions. The similarity of these rare-earth complexes and their utility toward the epoxidation of *trans*-chalcone are described.

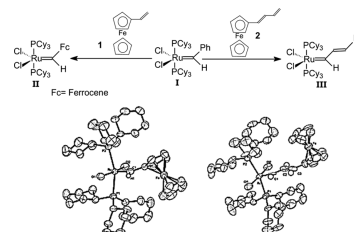


Tarun K. Maishal, Biplab Mondal, Vedavati G. Puranik, Prakash P. Wadgaonkar, Goutam Kumar Lahiri, Amitabha Sarkar

J. Organomet. Chem. 690 (2005) 1018

Synthesis, structure, electrochemistry and ROMP-activity of new ferrocenyl analog of Grubbs' metathesis catalyst

Treatment of $[(PCy_3)_2Cl_2Ru=CH-Ph]$ (**1**) with vinylferrocene **2** and 1-ferrocenyl-1,3-butadiene **2** yielded solid products. These new complexes were characterized by 1H NMR, ^{31}P NMR and ^{13}C NMR spectroscopy.

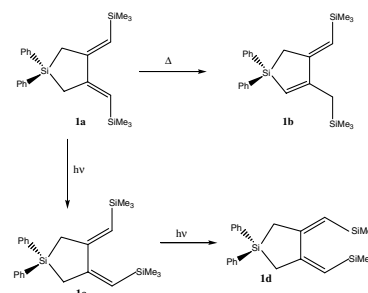


Maryam Mirza-Aghayan, Rabah Boukherroub, Georges Manuel, Max Koenig

J. Organomet. Chem. 690 (2005) 1028

Thermal and photochemical isomerization of exocyclic 1,3-dienes: 1,1-diphenyl-3,4-bis(trimethylsilylmethylene)-1-silacyclopentane *s-cis*-(E,E)

This paper describes the photochemical and the thermal isomerization of *s-cis*-(E,E)-1,1-diphenyl-3,4-bis(trimethylsilylmethylene)-1-silacyclopentane (**1a**). Under thermal conditions a 1,3-sigma-tropic of the methylene hydrogen occurs, yielding the *s-trans* isomer (**1b**). The photochemical irradiation of (**1a**) at 300 nm for 1 h gives the corresponding *s-cis*-(E,Z) isomer (**1c**) and then the *s-cis*-(Z,Z) isomer (**1d**) after prolonged irradiation (3 h).

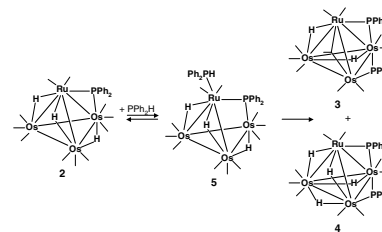


Leonard Joachim Pereira, Kwai Sum Chan, Weng Kee Leong

J. Organomet. Chem. 690 (2005) 1033

Reaction of the heterometallic cluster $\text{Os}_3\text{Ru}(\mu\text{-H})_2(\text{CO})_{13}$ with diphenylphosphine: phosphido-bridged tetrahedral and butterfly clusters

TMNO-activated reaction of the heteronuclear cluster $\text{Os}_3\text{Ru}(\mu\text{-H})_2(\text{CO})_{13}$ (**1**) with diphenylphosphine afforded the novel phosphido-bridged clusters $\text{Os}_3\text{Ru}(\mu\text{-PPh}_2)(\mu\text{-H})_3(\text{CO})_{11}$ (**2**), $\text{Os}_3\text{Ru}(\mu\text{-PPh}_2)_2(\mu\text{-H})_2(\text{CO})_{10}$ (**3**), $\text{Os}_3\text{Ru}(\mu\text{-PPh}_2)_2(\mu\text{-H})_4(\text{CO})_9$ (**4**), and $\text{Os}_3\text{Ru}(\mu\text{-PPh}_2)(\mu\text{-H})_3(\text{CO})_{11}(\text{PPh}_2\text{H})$ (**5**). The formation of **2-5** proceeded via P-H bond cleavage in the adduct $\text{Os}_3\text{Ru}(\mu\text{-H})_2(\text{CO})_{12}(\text{PPh}_2\text{H})$ (**6**). Reaction of **2** with PPh_3 afforded the adduct $\text{Os}_3\text{Ru}(\mu\text{-PPh}_2)(\mu\text{-H})_3(\text{CO})_{11}(\text{PPh}_3)$ (**7**) and the substituted derivative $\text{Os}_3\text{Ru}(\mu\text{-PPh}_2)(\mu\text{-H})_3(\text{CO})_{10}(\text{PPh}_3)$ (**8**).

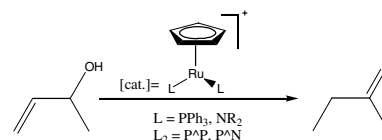


Robert C. van der Drift, Marcella Gagliardo, Huub Kooijman, Anthony L. Spek, Elisabeth Bouwman, Eite Drent

J. Organomet. Chem. 690 (2005) 1044

Scope, mechanism and diene inhibition of isomerization of allylic alcohols to saturated ketones catalyzed by ruthenium(II)-cyclopentadienyl complexes

The ruthenium(II)-cyclopentadienyl moiety in combination with various phosphine and amine ligands yields highly active catalysts for the isomerization of allylic alcohols to ketones. Kinetic studies and mechanistic aspects are reported. A ^{31}P NMR study sheds light on the intriguing inhibitory effect of dienes.

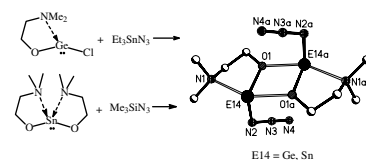


Victor N. Khrustalev, Ivan A. Portnyagin, Nikolay N. Zemlyansky, Irina V. Borisova, Yuri A. Ustynuk, Mikhail Yu. Antipin

J. Organomet. Chem. 690 (2005) 1056

New stable germynes, stannylenes, and related compounds. 5. Germanium(II) and tin(II) azides $[\text{N}_3\text{-E}^{14}\text{-OCH}_2\text{CH}_2\text{NMe}_2]_2$ ($\text{E}^{14} = \text{Ge}$, Sn): synthesis and structure

New stable azido derivatives of divalent germanium and tin $[\text{N}_3\text{-E}^{14}\text{-OCH}_2\text{CH}_2\text{NMe}_2]_2$ ($\text{E}^{14} = \text{Ge}$ (**1**), Sn (**2**)) have been synthesized by use of the β -dimethylaminoethoxy ligand that forms the intramolecular $\text{E}^{14} \leftarrow \text{N}$ coordination bond. Their crystal structures have been determined by X-ray diffraction analysis.

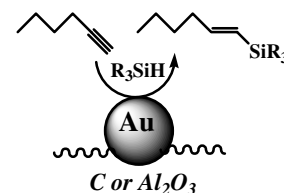


Anna Maria Caporusso, Laura Antonella Aronica, Eleonora Schiavi, Gianmario Martra, Giovanni Vitulli, Piero Salvadori

J. Organomet. Chem. 690 (2005) 1063

Hydrosilylation of 1-hexyne promoted by acetone solvated gold atoms derived catalysts

Supported gold nanoparticles for the selective hydrosilylation of 1-hexyne.

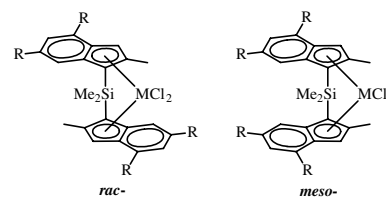


Vyacheslav V. Izmer, Denis A. Sorokin,
Lyudmila G. Kuz'mina, Andrei V. Churakov,
Judith A.K. Howard,
Alexander Z. Voskoboynikov

J. Organomet. Chem. 690 (2005) 1067

Synthesis and molecular structures of zirconium and hafnium complexes bearing dimethylsilylandiyl-bis-2,4,6-trimethylindenyl and dimethylsilylandiyl-bis-2-methyl-4,6-diisopropylindenyl ligands

Zirconium and hafnium *ansa*-complexes bearing 2,4,6-trialkyl-substituted indenyl fragments, *rac*- and *meso*-Me₂Si(2-Me-4,6-R₂C₉H₃- η^5)₂MCl₂, where R = Me, *i*-Pr and M = Zr, Hf, were synthesized, separated, and unambiguously characterized by NMR spectroscopy and X-ray crystal structure analysis.

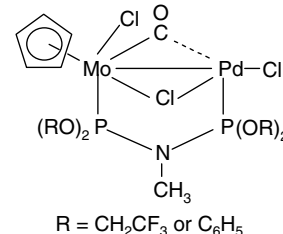


Mani Ganesan,
Setharampattu S. Krishnamurthy,
Munirathinam Nethaji

J. Organomet. Chem. 690 (2005) 1080

Di- and tri-nuclear molybdenum–palladium complexes bearing strong π -acceptor “P–N–P” ligands, MeN{P(OR)₂}₂ (R = CH₂CF₃ or Ph)

The reactions of dipalladium(I) complexes of the type [Pd₂Cl₂(μ -L–L₂)](L–L = MeN(PX₂)₂, X = OCH₂CF₃ or OPh) with [Mo₂(η^5 -C₅H₅)₂(CO)₆] provide ready access to a series of Mo–Pd heterometallic complexes.

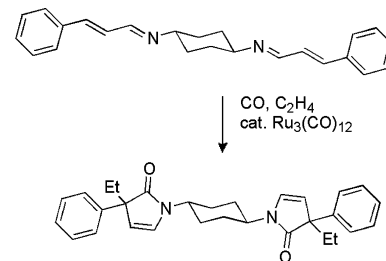


Wolfgang Imhof, Angela Göbel

J. Organomet. Chem. 690 (2005) 1092

α,β -Unsaturated diimines as substrates in catalytic C–H activation reactions and as ligands in iron carbonyl complexes

Diimines derived from cinnamaldehyde and the corresponding diamines react with Fe₂(CO)₉ to form mono- or dinuclear iron carbonyl compounds with Fe(CO)₃ moieties η^4 -coordinating either one or both α,β -unsaturated imine side chains. The same diimines in ruthenium catalyzed three component reactions with carbon monoxide and ethylene produce bis-dihydropyrrone derivatives in almost quantitative yields.

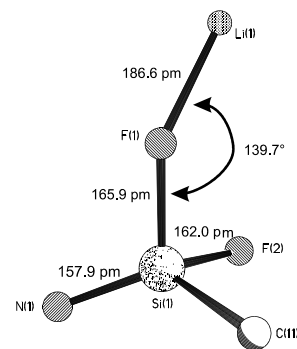


Susanne Kliem, Uwe Klingebiel,
Mathias Noltemeyer, Stefan Schmatz

J. Organomet. Chem. 690 (2005) 1100

Intramolecular rearrangement of organosilyl groups between oxygen and nitrogen in aminosiloxanes – a joint experimental–theoretical study, part II

Lithium amino-di-*tert*-butylsilylanolate reacts with halosilanes to give 1-silylamino-1,3-siloxanes (**1–7**). The tetrakis(1-silylamino)-siloxane thermally condenses yielding a spirocyclic six-membered ring (**8**). One six-membered ring of **8** forms a boat and the other has a twist conformation. Lithium salts of amino-disiloxanes form silylamino-silylanolates or amido-disiloxanes.



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