

Contents

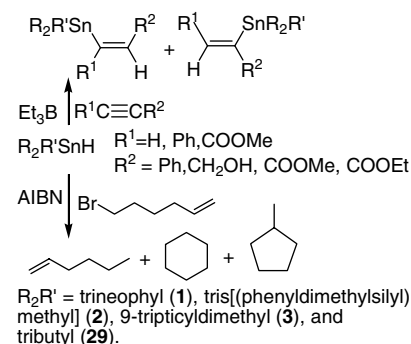
Regular papers

**María B. Faraoni, Verónica I. Dodero,
Liliana C. Koll, Adriana E. Zúñiga,
Terence N. Mitchell, Julio C. Podestá**

J. Organomet. Chem. 691 (2006) 1085

Stereoselective hydrostannation of substituted alkynes initiated by triethylborane and reactivity of bulky triorganotin hydrides

The hydrostannation at room temperature initiated by triethylborane of eight alkynes with trineophyl- (1), tris[(phenyldimethylsilyl)methyl]- (2), and 9-triptycyldimethyltin (3) hydrides leads to vinylstannanes in good to excellent yields and with, mostly, complete stereoselectivity. The relative reactivity of 1–3 and tri-*n*-butyltin hydride could be deduced from their radical reactions with 6-bromo-1-hexene.

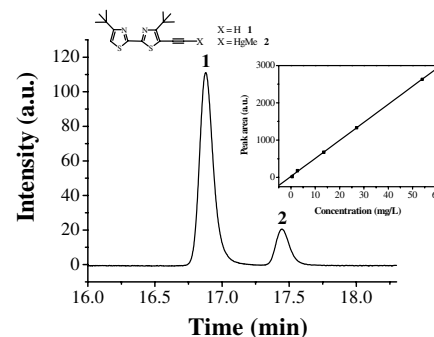


Li Liu, Yuk-Wai Lam, Wai-Yeung Wong

J. Organomet. Chem. 691 (2006) 1092

Complexation of 4,4'-di(*tert*-butyl)-5-ethynyl-2,2'-bithiazole with mercury(II) ion: Synthesis, structures and analytical applications

The synthesis, structure and photophysical properties of some luminescent derivatives of inorganic mercury and methylmercury incorporating 4,4'-di(*tert*-butyl)-5-ethynyl-2,2'-bithiazole entity were described. These metal complexes can be utilized in the development of a new procedure for derivatization of inorganic and organic mercury(II) to Hg(II) alkynyls for HPLC analysis.

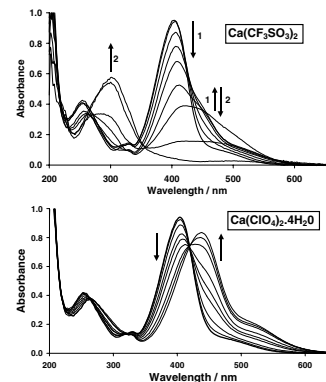


**Jérôme Maynadié, Béatrice Delavaux-Nicot,
Dominique Lavabre, Suzanne Fery-Forgues**

J. Organomet. Chem. 691 (2006) 1101

Monosubstituted ferrocenyl chalcones: Effect of structural changes upon the ability to detect calcium by absorption spectroscopy

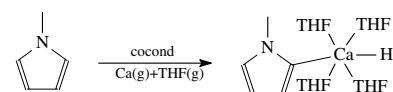
The UV/vis absorption behaviour of four electrochemical calcium sensors is examined: a peculiar detection of calcium triflate with regard to calcium perchlorate is performed by three of them. Investigations concerning the unprecedented behaviour of these chalcone-like derivatives are presented. Remarkably, a unique set of association constants fits both the absorption and NMR data provided by the azacrown ligand–calcium equilibrium.



Oscar Mendoza, Matthias Tacke*J. Organomet. Chem.* 691 (2006) 1110

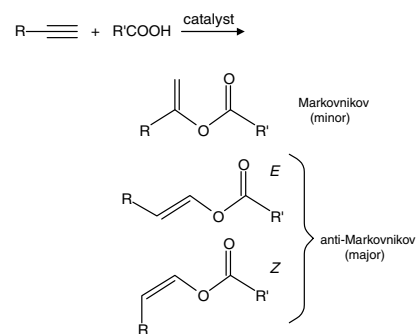
Cocondensation reactions of heterocyclic aromatic compounds with lithium, calcium and magnesium atoms at 77 K

Lithium, calcium and magnesium atoms were cocondensed with aromatic five-membered heterocycles in the presence of THF. In the case of calcium the reaction led to heteroaryl calcium hydride and the reaction mechanism of this unusual CH activation reaction was investigated using DFT calculations.

**Suming Ye, Weng Kee Leong***J. Organomet. Chem.* 691 (2006) 1117

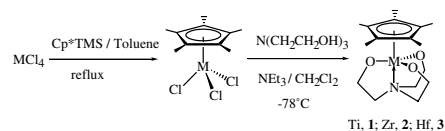
Regio- and stereoselective addition of carboxylic acids to phenylacetylene catalyzed by cyclopentadienyl ruthenium complexes

The direct addition of carboxylic acids to terminal alkynes such as phenylacetylene in the presence of catalytic amount of [CpRu(CO)₂Cl] (**1**) or [{CpRu(CO)₂}₂] (**2**) affords the anti-Markovnikov adducts with high selectivity. In most instances, the *E*-enol esters are the major products.

**Ki-Soo Lee, Youngjo Kim, Son-Ki Ihm, Youngkyu Do, Sunwoo Lee***J. Organomet. Chem.* 691 (2006) 1121

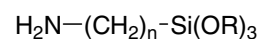
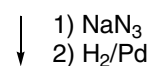
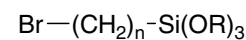
New group 4 half sandwich complexes containing triethanolamine ligand for polyethylene

The half-sandwich group 4 complexes have been synthesized and utilized as catalysts for polyethylene. These catalysts at various solution polymerization temperatures and [Al]/[M] molar ratio in toluene and their catalytic capability were investigated.

**Benoît P. Pichon, Michel Wong Chi Man, Catherine Bied, Joël J.E. Moreau***J. Organomet. Chem.* 691 (2006) 1126

A simple access to ω-aminoalkyltrialkoxysilanes: Tunable linkers for self-organised organosilicas

ω-Aminoalkyltrialkoxysilanes with variable chain linkers is directly available via a simple route by the reaction of NaN₃ with ω-bromoalkyltrialkoxysilanes followed by hydrogenation with palladium catalyst. The reaction of 5-aminopentyltriethoxysilane with 1,4-diisocyanatobenzene led to the corresponding 1,4-bisurea derivative which under acid catalysed hydrolysis led to a lamellar hybrid.

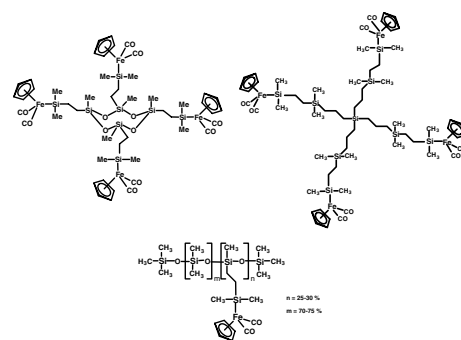


Eulalia Ramírez-Oliva, Isabel Cuadrado, Carmen M. Casado, José Losada, Beatriz Alonso

J. Organomet. Chem. 691 (2006) 1131

Functionalization of linear and cyclic siloxanes and a dendritic carbosilane with $(\eta^5\text{-C}_5\text{H}_5)\text{-Fe}(\text{CO})_2\text{Si}(\text{CH}_3)_2\text{CH}=\text{CH}_2$ via hydrosilylation reaction

A series of multimetallic systems containing silicon-linked cyclopentadienyl dicarbonyl iron moieties including carbosilane dendrimers and cyclic and polymeric siloxanes have been prepared using hydrosilylation reactions.

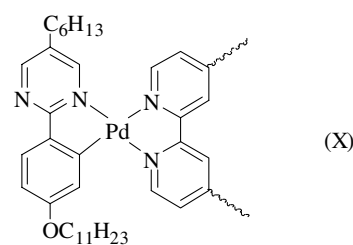


Daniela Pucci, Giovanna Barberio, Anna Bellusci, Alessandra Crispini, Mauro Ghedini

J. Organomet. Chem. 691 (2006) 1138

Tailoring “non conventional” ionic metallo-mesogens around an *ortho*-palladated fragment

Ionic *ortho*-palladated mesogenic complexes of unusual molecular shape are synthesised and the effect of slight structural changes on molecular organization in the liquid crystalline phase is discussed.

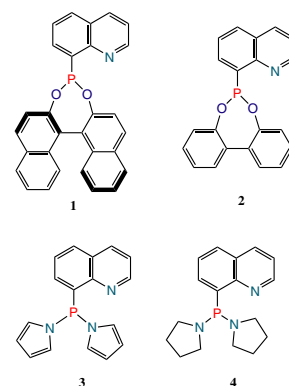


Doina Sirbu, Giambattista Consiglio, Sebastian Gischig

J. Organomet. Chem. 691 (2006) 1143

Palladium and nickel complexes of (P,N)-ligands based on quinolines: Catalytic activity for polymerization and oligomerization

Four (P,N)-ligands (1–4) with different steric and electronic properties were synthesized. They were used to prepare the monocationic palladium complexes $[\text{Pd}(\text{P,N})(\text{CH}_3)(\text{NCCH}_3)](\text{PF}_6)$ (9–12) and the nickel complexes $[\text{Ni}(\text{P,N})(1\text{-naphthyl})\text{Cl}]$ (13–16). The catalytic activity of these complexes toward copolymerization of styrene and ethylene with CO and oligomerization of ethylene was studied.

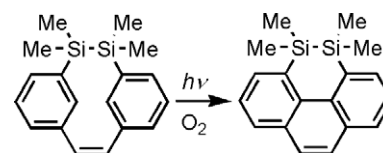


Makoto Oba, Minoru Iida, Tomoki Nagoya, Kozaburo Nishiyama

J. Organomet. Chem. 691 (2006) 1151

Synthesis of a novel silicon-bridged [2.2]metacyclophan-9-ene and its photolytic transannular reaction

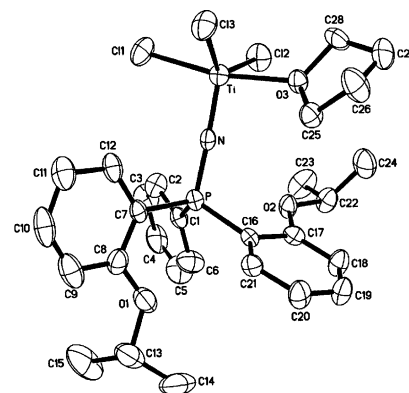
A novel [2.2]metacyclophane in which two benzene rings are linked together with a carbon–carbon double bond and a disilane unit was prepared. Photolysis of the cyclophane in the presence of oxygen afforded the 4,5-dihydro-4,5-disilapyrene derivative via a transannular dehydrogenation reaction.



Changhe Qi, Suobo Zhang*J. Organomet. Chem.* 691 (2006) 1154

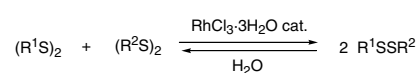
Titanium complexes with novel triaryl-substituted phosphinimide ligands: Synthesis, structure and ethylene polymerization behavior

A series of triaryl-substituted phosphinimide titanium complexes have been prepared by reaction of TiCl_4 with the corresponding phosphinimines. Complex **9** displayed moderate activity in the presence of MMAO or *i*- $\text{Bu}_3\text{Al}/\text{Ph}_3\text{CB}(\text{C}_6\text{F}_5)_4$, and this should be partly attributed to coordination of THF with titanium and the steric effect of two *iso*-propoxyl. And catalytic activity up to 32.2 kg-PE/(mol-Ti h bar) was observed.

**Mieko Arisawa, Atsushi Suwa, Masahiko Yamaguchi***J. Organomet. Chem.* 691 (2006) 1159

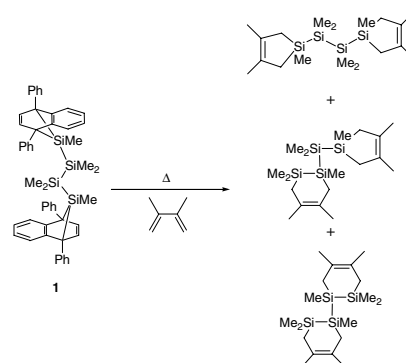
RhCl_3 -catalyzed disulfide exchange reaction using water solvent in homogeneous and heterogeneous systems

RhCl_3 catalyzed the alkythio exchange reaction of hydrophilic disulfides in water under homogeneous conditions, and equilibrium was attained in several hours. The reaction of dimethyl disulfide and hydrophilic disulfides under heterogeneous conditions also proceeded effectively.

**Takanobu Sanji, Takanori Mori, Hideki Sakurai***J. Organomet. Chem.* 691 (2006) 1169

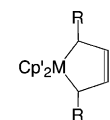
Consecutive disilanylsilylene to silyldisilene rearrangements

Thermolysis of 2,3-benzo-1,4-diphenyl-7-silano-norbornadiene derivatives **1** in the presence of 2,3-dimethylbutadienes gave the trapping products of the corresponding bissilylene, disilylsilylene, and a tetrasila-1,3-butadiene, via a consecutive disilanylsilylene to silyldisilene rearrangement.

**Noriyuki Suzuki, Takaaki Watanabe, Hajime Yoshida, Masakazu Iwasaki, Masahiko Saburi, Meguru Tezuka, Takuji Hirose, Daisuke Hashizume, Teiji Chihara***J. Organomet. Chem.* 691 (2006) 1175

Synthesis and structure of 1-metallacyclopent-3-yne complexes of group 4 metals

Five-membered metallacyclic alkyne complexes of titanium (**2**) and hafnium (**6**) were synthesized and structurally characterized as well as a novel 1-zirconacyclopent-3-yne complex **5**.



- 2:** M = Ti, Cp' = C_5H_5 , R = H
5: M = Zr, Cp' = $\text{C}_5\text{H}_4\text{Me}$, R = SiMe_3
6: M = Hf, Cp' = C_5H_5 , R = SiMe_3

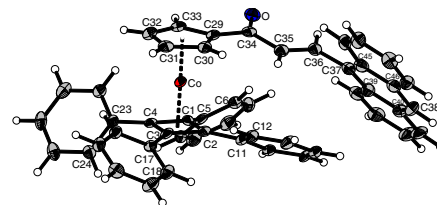
Ti complex **2**

Christoph Behrendt, Sven Dabek, Jurgen Heck, Donagh Courtney, Anthony R. Manning, Michael J. McGlinchey, Helge Mueller-Bunz, Yannick Ortin

J. Organomet. Chem. 691 (2006) 1183

Aldol condensation reactions of $[\text{Co}(\eta^4\text{-C}_4\text{Ph}_4)\{\eta^5\text{-C}_5\text{H}_4\text{C}(\text{O})\text{CH}_3\}]$

The aldol condensation between the enolate anion of $\text{Co}(\eta^4\text{-C}_4\text{Ph}_4)\{\eta^5\text{-C}_5\text{H}_4\text{C}(\text{O})\text{CH}_3\}$ and various aromatic aldehydes RCHO or $\text{RCH}=\text{CHCHO}$ gives the α,β -unsaturated aldehydes $\text{Co}(\eta^4\text{-C}_4\text{Ph}_4)\{\eta^5\text{-C}_5\text{H}_4\text{C}(\text{O})\text{CH}=\text{CH-R}\}$ or $\text{Co}(\eta^4\text{-C}_4\text{Ph}_4)\{\eta^5\text{-C}_5\text{H}_4\text{C}(\text{O})\text{CH}=\text{CH-CH}=\text{CHR}\}$ in which there is a *trans* arrangement across the $\text{C}=\text{C}$. These are donor–acceptor–donor systems with only limited donor–acceptor electronic interactions.



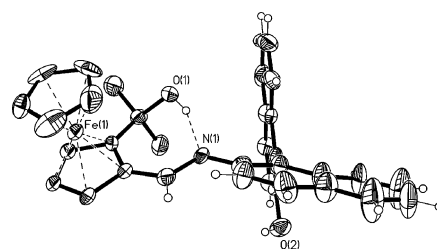
Heimo Wölfle, Holger Kopacka, Klaus Wurst, Karl-Hans Ongania, Hans-Helmut Görtz, Peter Preishuber-Pfögl, Benno Bildstein

J. Organomet. Chem. 691 (2006) 1197

Planar chiral ferrocene salen-type ligands featuring additional central and axial chirality

Novel highly chiral tridentate $[\text{NO}_2]_2\text{H}_2$ and tetradentate $[\text{N}_2\text{O}_2]_2\text{H}_2$ Schiff base ligands with planar, central and axial chirality have been

developed. Structurally, these ligands resemble half-salen and salen systems designed for stereoselective applications of their transition metal complexes in homogeneous catalysis. The modular synthesis involves diastereoselective metalation of chiral ferrocene acetals, followed by stereoconservative hydroxyalkylation and condensation with chiral hydroxyamines or diamines, respectively. In comparison to salen-type systems, an important advantage of these ligands is their tunable steric protection of the alkoxide donor site.

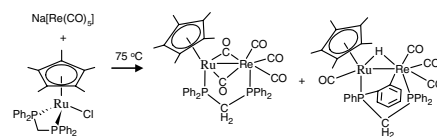


Suming Ye, Weng Kee Leong

J. Organomet. Chem. 691 (2006) 1216

Synthesis and structure of some ruthenium–rhenium heterodinuclear complexes and their catalytic activity in the addition of carboxylic acids to phenylacetylene

The salt elimination reaction of $\text{Na}[\text{Re}(\text{CO})_5]$ with $\text{Cp}^*\text{Ru}(\text{dppm})\text{Cl}$, $\text{CpRu}(\text{dppm})\text{Cl}$ or $\text{CpRu}(\text{CO})_2\text{Cl}$ afforded the heterodinuclear species $\text{Cp}^*\text{Ru}(\mu\text{-CO})_2(\mu\text{-dppm})\text{Re}(\text{CO})_3$, $\text{Cp}(\text{CO})\text{Ru}(\mu\text{-dppm})\text{Re}(\text{CO})_4$, or $\text{Cp}(\text{CO})_2\text{RuRe}(\text{CO})_5$, respectively. They showed good catalytic activity for the anti-Markovnikov addition of carboxylic acids to phenylacetylene.

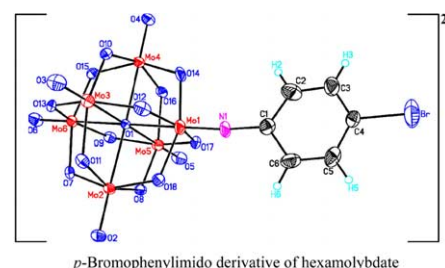


Qiang Li, Pingfan Wu, Yun Xia, Yongge Wei, Hongyou Guo

J. Organomet. Chem. 691 (2006) 1223

Synthesis, spectroscopic studies and crystal structure of a polyoxoanion cluster incorporating *para*-bromophenylimido ligand, $(\text{Bu}_4\text{N})_2[\text{Mo}_6\text{O}_{18}(\text{NC}_6\text{H}_4\text{Br-}p)]$

This *p*-bromophenylimido derivative of hexamolybdate has been synthesized by reaction of $[\alpha\text{-Mo}_8\text{O}_{26}]^{4-}$ and 4-bromoaniline hydrochloride with DCC as the dehydrating agent in refluxed anhydrous acetonitrile.

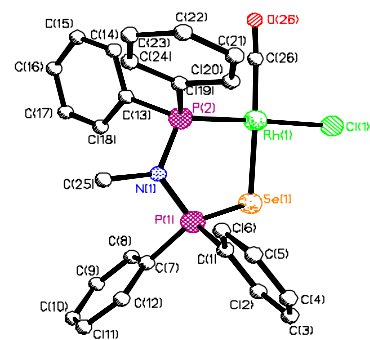


Dipak K. Dutta, J. Derek Woollins, Alexandra M.Z. Slawin, Dilip Konwar, Manab Sharma, Pravat Bhattacharyya, Stephen M. Aucott

J. Organomet. Chem. 691 (2006) 1229

Rhodium(I) carbonyl complexes of mono selenium functionalized bis(diphenylphosphino)methane and bis(diphenylphosphino)amine chelating ligands and their catalytic carbonylation activity

The complexes $[\text{Rh}(\text{CO})\text{Cl}(\text{Ph}_2\text{PCH}_2\text{P}(\text{Se})\text{Ph}_2)]$ (**1**) and $[\text{Rh}(\text{CO})\text{Cl}(\text{Ph}_2\text{PN}(\text{CH}_3)\text{P}(\text{Se})\text{Ph}_2)]$ (**2**) have been synthesized and characterized. The structure of **2** was determined by single-crystal X-ray diffraction. **1** undergoes faster OA reaction by about 4.5 times than **2**. The catalytic activity of **1** and **2** in carbonylation of methanol was higher than that of $[\text{Rh}(\text{CO})_2\text{I}_2]^-$.

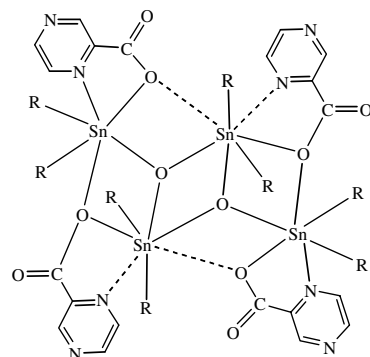


Han Dong Yin, Gang Li, Zhong Jun Gao, Hao Long Xu

J. Organomet. Chem. 691 (2006) 1235

Synthesis and structural characterizations of diorganotin(IV) complexes with 2-pyrazinecarboxylic acid

Two types of diorganotin(IV) complexes $\{[\text{R}_2\text{Sn}(\text{O}_2\text{CC}_4\text{H}_3\text{N}_2)]_2\text{O}\}_2$ (when R = *n*-octyl **1**, 2-*Cl*C₆H₄CH₂ **3**, 2-*FC*₆H₄CH₂ **5**, 4-*FC*₆H₄CH₂ **7**) and $\text{R}_2\text{Sn}(\text{O}_2\text{CC}_4\text{H}_3\text{N}_2)_2$ (when R = *n*-octyl **2**, 2-*Cl*C₆H₄CH₂ **4**, 2-*FC*₆H₄CH₂ **6**, 4-*FC*₆H₄CH₂ **8**) have been prepared in 1:1 or 1:2 molar ratios by reactions of diorganotin oxide with 2-pyrazinecarboxylic acid. All complexes are characterized by elemental, IR, ¹H and ¹³C NMR spectra. And complexes $\{[(n\text{-C}_8\text{H}_{17})_2\text{Sn}(\text{O}_2\text{CC}_4\text{H}_3\text{N}_2)]_2\text{O}\}_2$ (**1**) and $(n\text{-C}_8\text{H}_{17})_2\text{Sn}(\text{O}_2\text{CC}_4\text{H}_3\text{N}_2)_2$ (**2**) have been determined by X-ray single crystal diffraction.

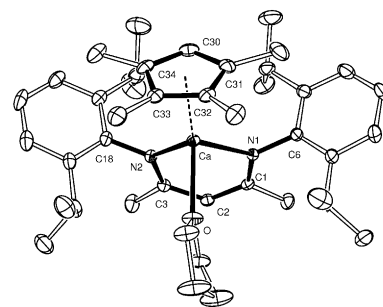


Anthony G. Avent, Mark R. Crimmin, Michael S. Hill, Peter B. Hitchcock

J. Organomet. Chem. 691 (2006) 1242

Reactivity of $[\text{HC}\{(\text{C}(\text{Me})\text{N}(\text{Dipp}))\}_2\text{Ca}\{\text{N}(\text{SiMe}_3)_2\}(\text{THF})]$ (Dipp = C₆H₃⁴Pr₂-2,6) with C–H acids: Synthesis of heteroleptic calcium η⁵-organometallics

A series of heteroleptic calcium cyclopentadienides have been synthesised by protonolysis of the β-diketimino amide $[\text{HC}\{(\text{C}(\text{Me})\text{N}(\text{Dipp}))\}_2\text{Ca}\{\text{N}(\text{SiMe}_3)_2\}(\text{THF})]$ with the appropriate C–H acids.

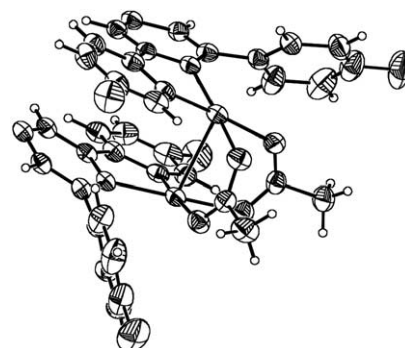


Peter G. Evans, Neil A. Brown, Guy J. Clarkson, Christopher P. Newman, Jonathan P. Rourke

J. Organomet. Chem. 691 (2006) 1251

Cyclopalladated acetate dimers: Crystal structures and VT-NMR

Cyclopalladated acetate bridged dimers are shown to exhibit an open-book type core in both the solid state and in solution. The barrier to rotation of a pendant phenyl ring against this core has been measured: $\Delta H^\ddagger = 56 \text{ kJ mol}^{-1}$, and $\Delta S^\ddagger = 0$.

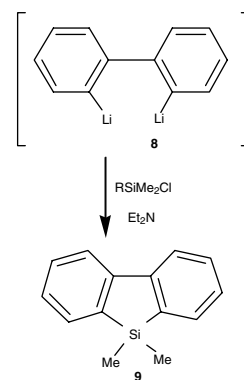


**Paul F. Hudrik, Donghua Dai,
Anne M. Hudrik**

J. Organomet. Chem. 691 (2006) 1257

Reactions of dilithiobutadienes with mono-chlorosilanes: Observation of facile loss of organic groups from silicon

Reactions of 1,4-dilithiobutadienes (e.g., **8**) with RMe_2SiCl gave siloles (e.g., **9**) as the major products, along with a silane (R_2SiMe_2) formed by the reaction of RLi with the chlorosilane. There was no evidence for the formation of a disilylated butadiene.

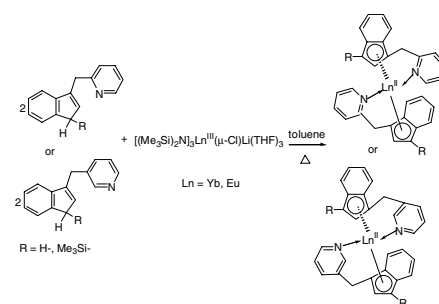


**Shaowu Wang, Yan Feng, Lili Mao,
Enhong Sheng, Gaosheng Yang, Meihua Xie,
Shaoyin Wang, Yun Wei, Zixiang Huang**

J. Organomet. Chem. 691 (2006) 1265

Homolysis of the Ln–N bond: Synthesis, characterization and catalytic activity of organolanthanide(II) complexes with 2-pyridylmethyl and 3-pyridylmethyl-function-alized indenyl ligands

Two series of new organolanthanide(II) complexes with general formula $\{\eta^5\text{:}\eta^1\text{-[1-R-3-(2-C}_5\text{H}_4\text{NCH}_2\text{)C}_9\text{H}_5\text{]}_2\text{Ln(II)}\}$ and $\{\eta^5\text{:}\eta^1\text{-[1-R-3-(3-C}_5\text{H}_4\text{NCH}_2\text{)C}_9\text{H}_5\text{]}_2\text{Ln(II)}\}$ ($\text{R} = \text{H-}, \text{Me}_3\text{Si-}; \text{Ln} = \text{Yb, Eu}$) were synthesized by tandem silylamine elimination/homolysis of the Ln–N bond reaction. The catalytic activities of the complexes on MMA polymerization were examined, and the solvents, temperatures, substituted groups effect on the polymerization were discussed.

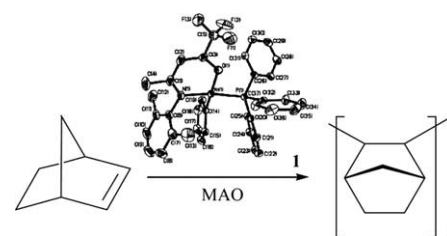


**Hai-Yu Wang, Jun Zhang, Xia Meng,
Guo-Xin Jin**

J. Organomet. Chem. 691 (2006) 1275

Nickel (II) complexes with β -enaminoketonato chelate ligands: Synthesis, solid-structure characterization and reactivity toward the addition polymerization of norbornene

Nickel (II) complexes with β -enaminoketonato chelate ligands (**1–4**) have been synthesized and characterized. Complexes **1–4** can be used as catalyst for the addition polymerization of norbornene in the presence of methylaluminoxane (MAO) as cocatalyst in high activities.

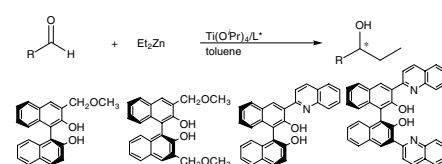


**Qun-Sheng Guo, Yong-Na Lu, Bing Liu,
Jian Xiao, Jin-Shan Li**

J. Organomet. Chem. 691 (2006) 1282

A facile synthesis of 3 or 3,3'-substituted binaphthols and their applications in the asymmetric addition of diethylzinc to aldehydes

By using a direct ortho-lithiation, the ligands (*S*)-3-methoxymethyl-1,1'-bi-2-naphthol [(*S*)-**1**], (*S*)-3,3'-bis(methoxymethyl)-1,1'-bi-2-naphthol [(*S*)-**2**], (*S*)-3-(quinolin-2-yl)-1,1'-bi-2-naphthol [(*S*)-**3**] and (*S*)-3,3'-bis(quinolin-2-yl)-1,1'-bi-2-naphthol [(*S*)-**4**] have been synthesized. (*S*)-**1** and (*S*)-**3** show moderate catalytic properties for the asymmetric diethylzinc addition to aromatic aldehydes.

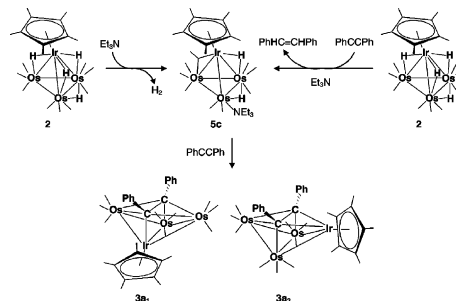


**Padmamalini Srinivasan, Jialin Tan,
Weng Kee Leong**

J. Organomet. Chem. 691 (2006) 1288

Reaction of the heteronuclear cluster $\text{Cp}^*\text{IrOs}_3(\mu\text{-H})_4(\text{CO})_9$ with alkynes: An unusual case of amine activation

Reaction of the heteronuclear cluster $\text{Cp}^*\text{IrOs}_3(\mu\text{-H})_4(\text{CO})_9$ with alkynes is activated by excess amine to afford the butterfly clusters $\text{Cp}^*\text{IrOs}_3(\text{CO})_9(\text{RCCR}')$; hinge-apex isomers are formed. In the case of PhCCH , another cluster $\text{Cp}^*\text{IrOs}_3(\text{CO})_9(\text{CCHPh})_2$, which contained two alkenyl moieties was also isolated.



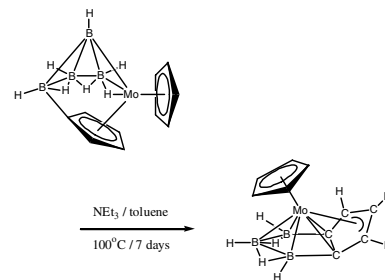
Notes

**Malcolm L.H. Green, John B. Leach,
Malcolm A. Kelland**

J. Organomet. Chem. 691 (2006) 1295

Partial incorporation of a cyclopentadienyl ligand into a molybdaborane to form a molybdacarbaborane

Reaction of the molybdaborane *arachno*-2- $[\text{Mo}(\eta\text{-C}_5\text{H}_5)(\eta^5\text{-}\eta^1\text{-C}_5\text{H}_4)\text{B}_4\text{H}_7]$ (**I**) with NEt_3 in toluene at 120°C for 7 days gives a 90% yield of the molybdacarbaborane *nido*-1- $[\text{Mo}(\eta\text{-C}_5\text{H}_5)(\eta^3\text{-}\eta^2\text{-C}_3\text{H}_3)\text{C}_2\text{B}_3\text{H}_5]$ (**II**). Two of the carbon atoms in the substituted cyclopentadienyl ring in **I** are incorporated into the metallacarborane cluster.

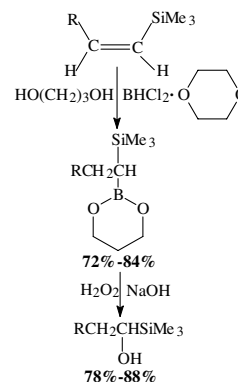


Narayan G. Bhat, Mary A. Villanueva

J. Organomet. Chem. 691 (2006) 1298

Facile hydroboration of (*Z*)-1-trimethylsilyl-1-alkenes with dichloroborane–dioxane complex: An easy access to *gem*-dimetalloalkanes containing boron and silicon

(*Z*)-1-Trimethylsilyl-1-alkenes are hydroborated with dichloroborane–dioxane complex in dichloromethane for 6 h at room temperature. The resulting solution is then treated with 1,3-propane diol at 0°C for 0.5 h to provide the corresponding *gem*-dimetalloalkanes containing boron and silicon in good yields (72–84%). The structures of these novel intermediates are further confirmed by selective oxidation with alkaline hydrogen peroxide to provide the corresponding alcohols containing α -trimethylsilyl group in 78–88% isolated yields.

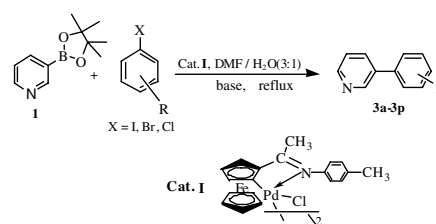


**Jinli Zhang, Liang Zhao, Maoping Song,
Thomas C.W. Mak, Yangjie Wu**

J. Organomet. Chem. 691 (2006) 1301

Highly efficient cyclopalladated ferrocenyl-imine catalyst for Suzuki cross-coupling reaction of 3-pyridylboronic pinacol ester with aryl halides

The Suzuki cross-coupling reaction of 3-pyridylboronic pinacol ester with aryl iodides, bromides and chlorides was carried out in $\text{DMF}/\text{H}_2\text{O}$ (3/1, v/v) at 110°C in the presence of cyclopalladated ferrocenyl-imine **I** and K_2CO_3 or CsCO_3 (1.0 equiv.) without the protection of inert gas. By using this method the synthesis of 3-pyridyl biaryl compounds could be readily achieved.

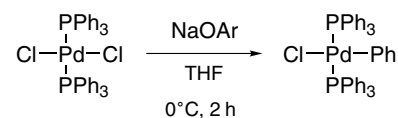


Hiroyuki Yasuda, Noriko Maki,
Jun-Chul Choi, Mahmut Abla,
Toshiyasu Sakakura

J. Organomet. Chem. 691 (2006) 1307

Phenoxide-assisted P–C bond cleavage in
PdCl₂(PPh₃)₂ under very mild conditions

PdCl₂(PPh₃)₂ reacted with NaOAr (Ar = Ph, *p*-tolyl) at 0 °C to afford PdCl(Ph)(PPh₃)₂, instead of PdCl(OAr)(PPh₃)₂, in 12–16% isolated yields based on Pd. It is likely that the reaction proceeds via an intermediate, PdCl(OAr)(PPh₃)₂, and subsequent aryloxy–phenyl exchange that involves P–C bond cleavage.

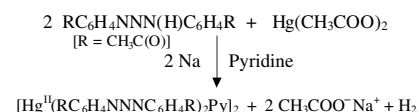


Manfredo Hörner, Gelson Manzoni de Oliveira,
Eduardo Giuliani Koehler,
Lorenzo do Canto Visentin

J. Organomet. Chem. 691 (2006) 1311

Polymeric bidimensional self-assembling of [Hg^{II}(RC₆H₄NNNC₆H₄R)₂Py] (R = *m*-acetyl) through metal-η²,η²-arene π-interactions and non classical C–H···O bonding: Synthesis and X-ray characterization of a bis diaryl symmetric-substituted triazenide complex of Hg(II)

Deprotonated 1,3-bis(3-acetylphenyl)triazene reacts with Hg(CH₃COO)₂ and pyridine to give tectonic [Hg^{II}(RC₆H₄NNNC₆H₄R)₂Py] [R = CH₃C(O)]. The tectons are linked to pairs as centrosymmetric dimers through reciprocal metal-η²-arene π-interactions. The dimeric units assemble a supramolecular bidimensional lattice through non classical C–H···(O)CCH₃ bonding.

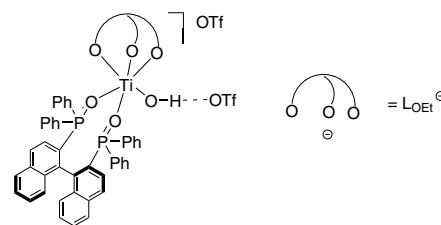


Xiao-Yi Yi, Ian D. Williams, Wa-Hung Leung

J. Organomet. Chem. 691 (2006) 1315

Titanium(IV) terminal hydroxo complexes containing chelating bis(phosphine oxide) ligands

Treatment of [L_{OEt}Ti(OTf)₃] (L_{OEt}⁻ = [CpCo{P(O)(OEt)₂}₃]⁻; OTf⁻ = triflate) with (*S*)-(-)-2,2'-bis(diphenylphosphinoyl)-1,1'-binaphthyl (*S*-binapO₂) afforded the Ti(IV) hydroxo complex [L_{OEt}Ti(*S*-binapO₂)(OH)](OTf)₂ (**1**). Treatment of [L_{OEt}Ti(OTf)₃] with K(tpip) (tpip⁻ = [N(Ph₂PO)₂]⁻) afforded [L_{OEt}Ti(tpip)(OTf)](OTf) (**2**) that reacted with CsOH to give [L_{OEt}Ti(tpip)(OH)](OTf) (**3**). The crystal structures of **1** and **2** have been determined.



Erratum 1320

SCIENCE @ DIRECT®

Full text of this journal is available, on-line from ScienceDirect. Visit www.sciencedirect.com for more information.

CONTENTS
direct

This journal is part of **ContentsDirect**, the *free* alerting service which sends tables of contents by e-mail for Elsevier books and journals. You can register for **ContentsDirect** online at: <http://contentsdirect.elsevier.com>