

Contents

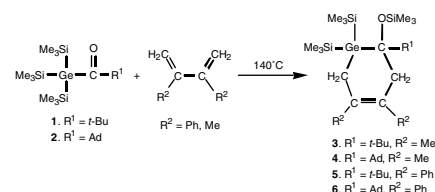
Communications

**Akinobu Naka, Shinsuke Ueda,
Mitsuo Ishikawa**

J. Organomet. Chem. 692 (2007) 2357

The reactions of germenes generated thermally from pivaloyl- and adamantoyltris(trimethylsilyl)germane with 1,3-butadienes

The thermolysis of pivaloyl- and adamantoyl-tris(trimethylsilyl)germane in the presence of 2,3-dimethyl- and 2,3-diphenyl-1,3-butadiene gave the respective adducts derived from [2+4] cycloaddition of the germenes with butadienes in good yields.

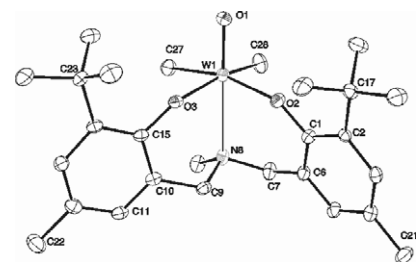


Ari Lehtonen, Reijo Sillanpää

J. Organomet. Chem. 692 (2007) 2361

Synthesis and structure of stable *cis*-dimethyl complex of oxotungsten(VI)

Transmetalation reaction of oxotungsten(VI) complex [WO(L^{*t*Bu})Cl₂] (L^{*t*Bu} = methylamino-*N,N*-bis(2-methylene-4-methyl-6-*tert*-butylphenolate) dianion) with methyl magnesium iodide leads to the formation of *cis*-[WO-(L^{*t*Bu})Me₂]. Both *cis* and *trans* isomers of initial dichloro complex yield identical product. This unexpectedly stable dialkyl complex can be activated by Et₂AlCl to catalyze the ring-opening metathesis polymerization of norbornene.



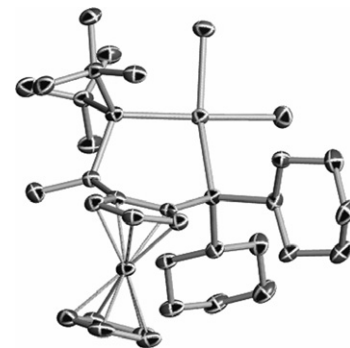
Regular Papers

**Brenna L. Ghent, Sarah L. Martinak,
Lauren A. Sites, James A. Golen,
Arnold L. Rheingold, Chip Natano**

J. Organomet. Chem. 692 (2007) 2365

Electrochemistry and complexation of Josiphos ligands

The oxidative electrochemistry of 11 chiral bis-phosphinoferrrocene ligands, all within the Josiphos class of ligands, was examined in methylene chloride. In addition, palladium(II) and platinum(II) complexes with the general formula [MCl₂(P-P)] (M = Pd or Pt; P-P = Josiphos) were prepared, characterized by NMR and cyclic voltammetry and the X-ray structures of two complexes reported.

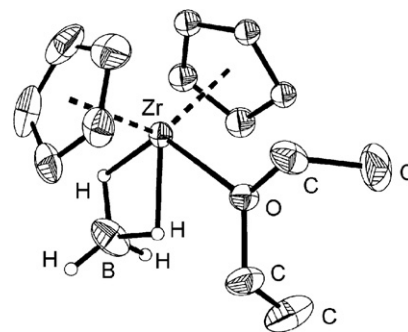


**Fu-Chen Liu, Shou-Chon Chen,
Gene-Hsian Lee, Shie-Ming Peng**

J. Organomet. Chem. 692 (2007) 2375

Effect of solvent on reactions of $\text{Cp}_2\text{Zr}\{(\mu\text{-H})_2\text{-BHR}\}_2$ and $\text{Cp}_2\text{ZrH}\{(\mu\text{-H})_2\text{-BHR}\}$ ($\text{R} = \text{CH}_3, \text{Ph}$) with $\text{B}(\text{C}_6\text{F}_5)_3$

The effect that a solvent has on reactions of $\text{Cp}_2\text{Zr}\{(\mu\text{-H})_2\text{-BHR}\}_2$ and $\text{Cp}_2\text{ZrH}\{(\mu\text{-H})_2\text{-BHR}\}$ ($\text{R} = \text{CH}_3, \text{Ph}$) with $\text{B}(\text{C}_6\text{F}_5)_3$ has been studied. In the case of benzene a metathesis product was isolated. In the case of diethyl ether different hydride abstraction ionic products were isolated from each reaction. The time-elapsd ^{11}B NMR spectra were used to investigate the course of reactions.

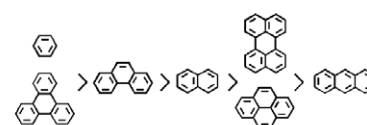


**Takao Shibasaki, Nobuyuki Komine,
Masafumi Hirano, Sanshiro Komiya**

J. Organomet. Chem. 692 (2007) 2385

Synthesis of di-, tri-, tetra- and pentacyclic arene complexes of ruthenium(II): $[\text{Ru}(\eta^6\text{-polycyclic arene})(1\text{-}5\text{-}\eta^5\text{-cyclooctadienyl})]\text{PF}_6$ and their reactions with NaBH_4

Polycyclic arene complexes, $[\text{Ru}(\eta^6\text{-arene})(1\text{-}5\text{-}\eta^5\text{-cyclooctadienyl})]\text{PF}_6$ (2) [arene = benzene, naphthalene, phenanthrene, anthracene, triphenylene, pyrene and perylene], are prepared. The coordination ability of arenes is as follows: benzene ~ triphenylene > phenanthrene > naphthalene > perylene > anthracene. These observations indicate that the benzo fused rings, particularly those of acenes, decrease the thermal stability.



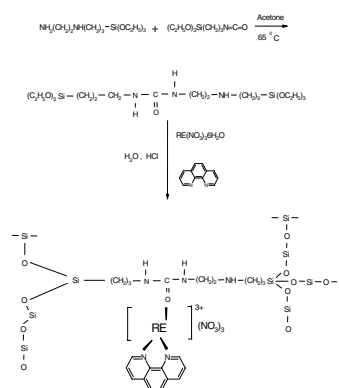
coordination ability to cationic Ru fragment

Bing Yan, Fang-Fang Wang

J. Organomet. Chem. 692 (2007) 2395

Molecular design and photo-physics of quaternary hybrid terbium centered systems with novel functional di-urea linkages of strong chemical bonds through hydrogen transfer addition

Two kinds of crosslinking reagents, 3-amino-propyl-methyl-diethoxysilane ($\text{H}_2\text{N}(\text{CH}_2)_3\text{Si}(\text{OC}_2\text{H}_5)_2$, abbreviated as APMES) and *N*-2-aminoethyl-3-aminopropyltriethoxysilane ($\text{H}_2\text{N}(\text{CH}_2)_2\text{HN}(\text{CH}_2)_3\text{Si}(\text{OC}_2\text{H}_5)_3$, abbreviated as AEAPES) are modified by 3-(triethoxysilyl)-propyl isocyanate (TEPIC) to afford two novel crosslinking molecular derivatives as bridge ligands. Then the ternary and quaternary organic-inorganic molecular-based hybrid material with these functional and bridge ligands and 1,10-phenanthroline (phen) are constructed with the two components equipped with covalent bonds are reported.

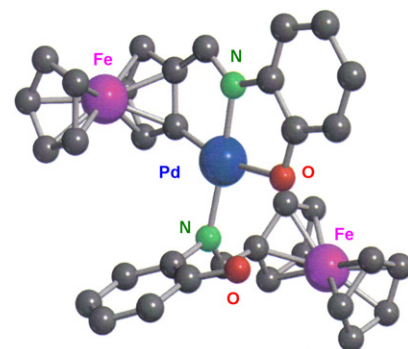


**Sonia Pérez, Concepción López,
Amparo Caubet, Xavier Solans,
Mercè Font-Bardía, Martí Gich, Elies Molins**

J. Organomet. Chem. 692 (2007) 2402

Versatility in the mode of coordination $\{(\text{N}), (\text{N},\text{O})^-, (\text{C},\text{N})^-, \text{or } (\text{C},\text{N},\text{O})^{2-}\}$ of $[(\eta^5\text{-C}_5\text{H}_5)\text{Fe}\{(\eta^5\text{-C}_5\text{H}_4)\text{-CH=N-(C}_6\text{H}_4\text{-2OH)}\}]$ to palladium(II)

The experimental strategies to control selectively the formation of a wide variety of novel palladium(II) complexes containing the ferrocenyliminoalcohol $[(\eta^5\text{-C}_5\text{H}_5)\text{Fe}\{(\eta^5\text{-C}_5\text{H}_4)\text{-CH=N-(C}_6\text{H}_4\text{-2OH)}\}]$ (**1b**) acting as a $(\text{N})^-$, $(\text{N},\text{O})^-$, $[\text{C}(\text{sp}^2, \text{ferrocene}),\text{N}]^-$ or $[\text{C}(\text{sp}^2, \text{ferrocene}),\text{N},\text{O}]^{2-}$ ligand are described.

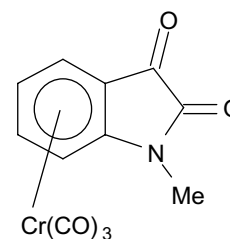


**Bianka Muschalek, Ingo Weidner,
Holger Butenschön**

J. Organomet. Chem. 692 (2007) 2415

Synthesis of tricarbonyl(*N*-methylisatin)chromium(0) and an unanticipated transformation of a *N*-MEM to a *N*-MOM group

The synthesis and some reactions of tricarbonyl(*N*-methylisatin)chromium(0) are reported.

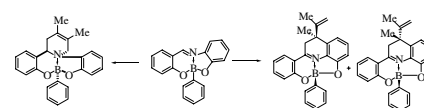


**Mario Rodríguez, Ma. Eugenia Ochoa,
Cristina Rodríguez, Rosa Santillan,
Víctor Barba, Norberto Farfán**

J. Organomet. Chem. 692 (2007) 2425

Imino Diels–Alder reaction of boronates. Preparation and characterization of new 3,4-dihydroquinoline and 1,2,3,6-tetrahydropyridine derivatives

The preparation of 3,4-dihydroquinolines and 1,2,3,6-tetrahydropyridines by imino Diels–Alder reaction of boronates derived from Schiff bases with 2,3-dimethylbutadiene is reported. The results show that the dienophile or diene behavior of these boronates is influenced by the substituent *para* to the imine fragment.

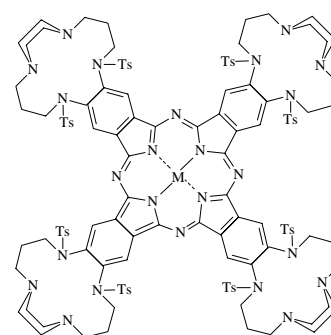


**Zekeriya Brykkoğlu, Halit Kantekin,
Musa Özil**

J. Organomet. Chem. 692 (2007) 2436

Microwave-assisted synthesis and characterization of novel metal-free and metallophthalocyanines containing four 14-membered tetraaza macrocycles

The novel tetrasubstituted metal-free phthalocyanine (**6**) and metallophthalocyanines (**7**, **8**) bearing four 14-membered tetraaza macrocycles moieties on peripheral positions have been synthesized by cyclotetramerization reaction of phthalonitrile derivative (**5**) in a multi-step reaction sequence. The new compounds were characterized by a combination of IR, ¹H NMR, ¹³C NMR, UV–vis, elemental analysis and MS spectral data.



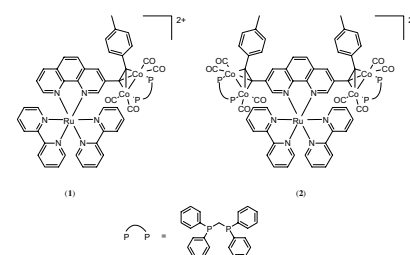
Compound	6	7	8
M	2H	Ni	Zn

**Michito Shiotsuka, Yasuhiro Inui,
Yasushi Sekioka, Youhei Yamamoto,
Satoru Onaka**

J. Organomet. Chem. 692 (2007) 2441

Synthesis, photochemistry, and electrochemistry of ruthenium(II) polypyridyl complexes anchored by dicobalt carbonyl units

A novel hybrid complex system of ruthenium polypyridyl complexes containing dicobalt carbonyl units is prepared and shows obvious emission quenching, as evidenced by the efficient intramolecular energy transfer from the MLCT excited state in the ruthenium polypyridyl unit to the dicobalt carbonyl units.

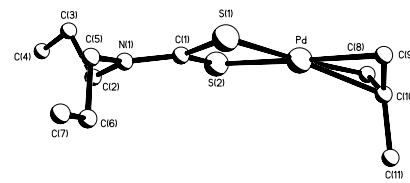


**Anthony Birri, Benjamin Harvey,
Graeme Hogarth, Elif Subasi, Fadime Uğur**

J. Organomet. Chem. 692 (2007) 2448

Allyl palladium dithiocarbamates and related dithiolate complexes as precursors to palladium sulfides

Dithiocarbamate complexes, $[\text{Pd}(\eta^3\text{-allyl})(\text{S}_2\text{CNR}_2)]$, have been prepared and TGA and DSC studies carried out in order to assess their potential as MOCVD precursors to palladium sulfides. For comparison $[(\eta^3\text{-C}_4\text{H}_7)\text{Pd}(\text{S}_2\text{PPh}_2)]$ and $[\text{Pd}(\text{S}_2\text{CNMeR})_2]$ ($\text{R} = \text{Bu}$, Hex) have been prepared and tested as precursors. The crystal structures of $[(\eta^3\text{-C}_4\text{H}_7)\text{Pd}(\text{S}_2\text{CNMe}_2)]$, $[(\eta^3\text{-C}_4\text{H}_7)\text{Pd}(\text{S}_2\text{CNPr}_2)]$, $[(\eta^3\text{-C}_4\text{H}_7)\text{Pd}(\text{S}_2\text{PPh}_2)]$ and $[\text{Pd}(\text{S}_2\text{CNMeBu})_2]$ are reported.

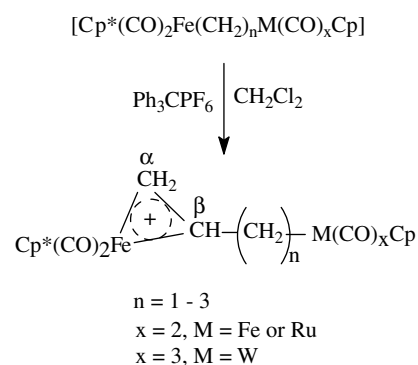


**Evans O. Changamu, Holger B. Friedrich,
Melanie Rademeyer**

J. Organomet. Chem. 692 (2007) 2456

Synthesis and characterization of transition metal stabilized carbocations of the types $[\text{Cp}^*(\text{CO})_2\text{Fe}\{\mu\text{-(C}_n\text{H}_{2n-1})\}\text{M}(\text{CO})_x\text{Cp}]^+\text{PF}_6^-$ ($x = 2$, $\text{M} = \text{Fe}$ or Ru ; $x = 3$, $\text{M} = \text{W}$, $\text{Cp}^* = \eta^5\text{-C}_5\text{(CH}_3)_5$; $\text{Cp} = \eta^5\text{-C}_5\text{H}_5$; $n = 3-6$) and $[\text{Cp}(\text{CO})_2\text{-Ru}\{\mu\text{-(C}_n\text{H}_{2n-1})\}\text{W}(\text{CO})_3\text{Cp}]^+\text{PF}_6^-$ ($n = 3-5$) and the crystal structures of the complexes $[\text{Cp}^*(\text{CO})_2\text{Fe}(\text{CH}_2)_2\text{Ru}(\text{CO})_2\text{Cp}]$, $[\text{Cp}^*(\text{CO})_2\text{-Fe}(\text{CH}_2)_3\text{Ru}(\text{CO})_2\text{Cp}]$, $[\text{Cp}^*(\text{CO})_2\text{-Fe}(\text{CH}_2)_5\text{-W}(\text{CO})_3\text{Cp}]$, and $[\text{Cp}(\text{CO})_2\text{Ru}(\text{CH}_2)_5\text{W}(\text{CO})_3\text{Cp}]$

The complexes $[\text{Cp}^*(\text{CO})_2\text{Fe}(\text{CH}_2)_n\text{M}(\text{CO})_x\text{Cp}]$ ($n = 3-6$, $\text{Cp}^* = \eta^5\text{-C}_5\text{(CH}_3)_5$, $\text{Cp} = \eta^5\text{-C}_5\text{H}_5$, $x = 2$, $\text{M} = \text{Fe}$ or Ru ; $x = 3$, $\text{M} = \text{W}$), undergo hydride abstraction selectively from the CH_2 β to $\text{Cp}^*(\text{CO})_2\text{Fe}$ to give the cationic metallocycles $[\text{Cp}^*(\text{CO})_2\text{Fe}\{\mu\text{-(C}_n\text{H}_{2n-1})\}\text{-M}(\text{CO})_x\text{Cp}]^+\text{PF}_6^-$ upon reaction with Ph_3CPF_6 . Similarly, $[\text{Cp}(\text{CO})_2\text{Ru}(\text{CH}_2)_n\text{W}(\text{CO})_3\text{Cp}]$ ($n = 3-5$) undergo hydride abstraction from the CH_2 β to $\text{Cp}(\text{CO})_2\text{Ru}$ to give $[\text{Cp}(\text{CO})_2\text{Ru}\{\mu\text{-(C}_n\text{H}_{2n-1})\}\text{W}(\text{CO})_3\text{Cp}]^+\text{PF}_6^-$.

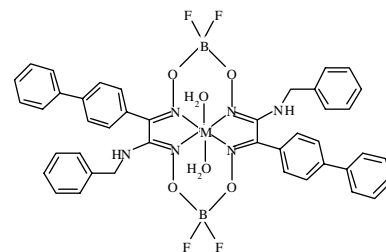


**Fatma Karipcin, Saliha Ilican, Yasemin Caglar,
Mujdat Caglar, Bülent Dede, Yücel Şahin**

J. Organomet. Chem. 692 (2007) 2473

Synthesis, structural and optical properties of novel borylated Cu(II) and Co(II) metal complexes of 4-benzylaminobiphenylglyoxime

Two novel BF_2^- -bridge containing 4-benzylaminobiphenylglyoxime Co(II) and Cu(II) complexes have been synthesized by replacing of the bridging protons of the dioxime complexes with BF_2 group. These compounds were characterized using elemental analysis, IR, ICP-OES, magnetic susceptibility, thermal gravimetry techniques. The optical band gaps, optical dispersion parameters, optical constants such as optical conductivity, dielectric constant, refractive index were determined for the complexes.

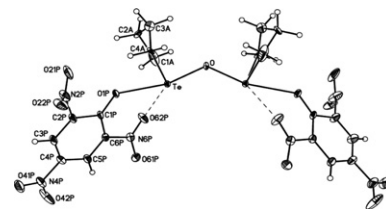


**Prakash C. Srivastava, Sangeeta Bajpai,
Chhabi Ram, Rajesh Kumar, Ray J. Butcher**

J. Organomet. Chem. 692 (2007) 2482

Synthesis, spectral and structural characterisation of ditelluroxanes: μ -oxo-bis[nitrato-; 2,4,6-trinitrophenolato-dialkyl tellurium (IV)]

The synthesis of ditelluroxanes has been achieved by convenient routes. Their X-ray structures show that they possess ΨTBP geometry with stereochemically active electron lone pair. Their supramolecular associations are organised through cooperative participation of $\text{Te}\cdots\text{O}$ secondary bonds, $\text{C-H}\cdots\text{O}$ hydrogen bonds and π -stacking of the organic substituents.

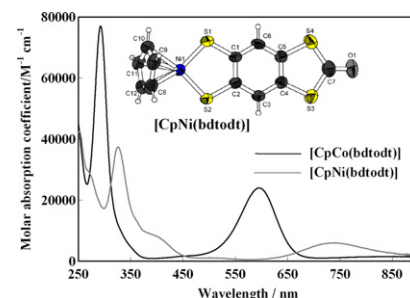


Mitsushiro Nomura, Marc Fourmigué

J. Organomet. Chem. 692 (2007) 2491

Isostructural diamagnetic cobalt(III) and paramagnetic nickel(III) dithiolene complexes with an extended benzenedithiolate core [CpM^{III}(bdtodt)] (M = Co and Ni)

The isostructural diamagnetic [CpCo(bdtodt)] and paramagnetic [CpNi(bdtodt)] (Cp = η⁵-cyclopentadienyl, bdtodt: benzo[1,3]dithiol-2-one-5,6-dithiolato) complexes were prepared by starting from benzo[1,2-d;4,5-d']bis[1,3]-dithiole-2,6-dione. Both Co and Ni complexes are isostructural and crystallize in the orthorhombic system with *Pbca* space group. The structural similarities, but the electrochemical, spectroscopic and magnetic differences between various [CpCo(dithiolene)] and [CpNi(dithiolene)] complexes are described.

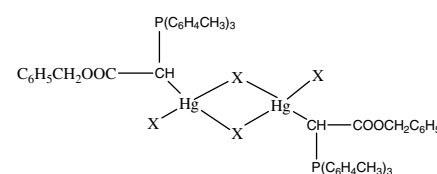


Seyyed Javad Sabounchei, Alireza Dadrass, Mojtaba Jafarzadeh, Sadegh Salehzadeh, Hamid Reza Khavasi

J. Organomet. Chem. 692 (2007) 2500

Synthesis of a new carbonyloxymethylene-triparatolylphosphorane ylide and study of its reaction with mercury(II) halides: Spectral and structural characterization

The reaction of a new phosphorus ylide, carbonyloxymethylene-triparatolylphosphorane, {(*p*-tolyl)₃PCHCOOCH₂C₆H₅}, with a mercury(II) halide yields a dimeric complex of the form [{(*p*-tolyl)₃PCHCOOCH₂C₆H₅}(HgX₂)₂] (where X = Cl, Br or I). Single crystal X-ray analyses of **2** reveals the presence of centrosymmetric dimeric structure containing the ylide and HgBr₂.

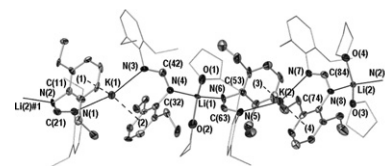


Marcus L. Cole, Aaron J. Davies, Cameron Jones, Peter C. Junk

J. Organomet. Chem. 692 (2007) 2508

Persistent π-arene interactions in bulky formamidinate complexes of potassium

The reaction of potassium hexamethyldisilazide with N(Diep)=C(H)NH(Diep) (Diep-FormH, Diep = 2,6-Et₂C₆H₃) in THF yields the half deprotonated compound [K(Diep-Form)(DiepFormH)] (**1**), which exhibits suppressed reactivity with the hexamethyldisilazide anion. Reaction of **1** with *n*-BuLi gives [{Li(THF)₂K(DiepForm)₂}]_n (**2**). Preparation of **1** in the presence of chelating ethers or amines gives fully deprotonated polymeric species.

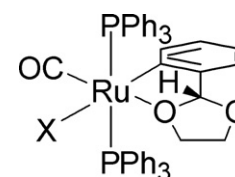


Rosalyn J. Evans, Kevin R. Flower, Laura G. Leal, Patrick J. O'Malley, Claudia Mangold, Robin G. Pritchard, John E. Warren

J. Organomet. Chem. 692 (2007) 2519

Hemilabile orthometallated acetals: Synthesis, spectroscopic characterization and crystal and molecular structures of [RuCl{η²-*C*,*O*-C₆H₄-2-CH(O₂C₂H₄)}(CO)(PPh₃)₂] and [HgBr{η²-*C*,*O*-C₆H₄-2-CH(O₂C₂H₄)}]

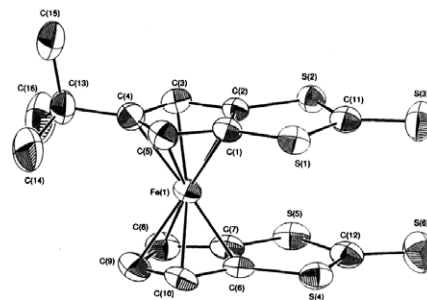
The cyclometallated acetal-containing complexes [RuCl{η²-*C*,*O*-C₆H₄-2-CH(O₂C₂H₄)}(CO)(PPh₃)₂] (X = F, Cl, Br, I) have been prepared. The solid state structure (X = Cl) shows four independent molecules which consist of an enantiomeric (planar oxygen) and diastereomeric pair (pyramidal oxygen). Theoretical calculations suggest that ether ligands should be planar unlike thioether ligands which are pyramidal. The electrostatic potential for simplified model compounds suggests this is due to the nature of the lone pairs at oxygen and sulfur respectively.



Masaru Sato, Yuta Miyagawa, Yuko Shigetoh*J. Organomet. Chem.* 692 (2007) 2529

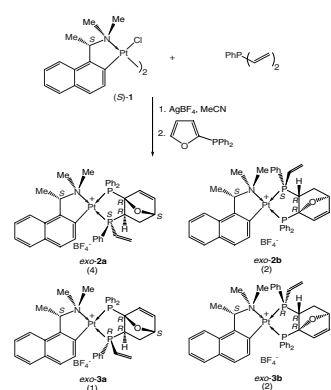
The synthesis and properties of ferroceno-[1',2';1'',2'']bis(1,3-dithiol-2-thione and -2-one) derivatives

Ferrocene, *t*-Bu- and 1,1'-bis(*t*-Bu)ferrocenes fused with 1,3-dithiol-2-thione ring were prepared. In spite of the presence or absence of *t*-Bu groups, the 1,3-dithiol-2-thione rings are heaped on top of each other. In the anodic scan, the 1,3-dithiol-2-thione part is oxidized likely to cause a coupling of the S atoms.

**Wee-Chuan Yeo, Shuli Chen, Geok-Kheng Tan, Pak-Hing Leung***J. Organomet. Chem.* 692 (2007) 2539

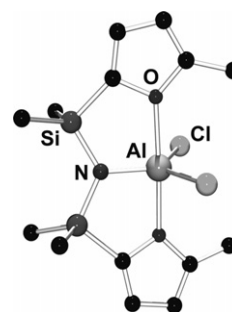
Synthesis of P-chiral phosphines via chiral metal template promoted asymmetric furan Diels–Alder reaction

The organoplatinum complex containing *ortho*-metalated (*S*)-1-(dimethylamino)ethyl-naphthalene as the chiral auxiliary promoted the asymmetric furan Diels–Alder reaction between phenyldivinylphosphine and 2-diphenylphosphinofuran (*E*)-2-diphenylphosphinostyrene, for the synthesis of P-chiral phosphines.

**Lloyd T.J. Evans, Martyn P. Coles, F. Geoffrey N. Cloke, Peter B. Hitchcock***J. Organomet. Chem.* 692 (2007) 2548

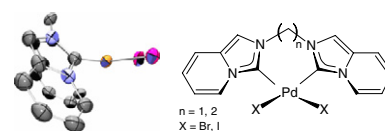
Main group complexes incorporating 1,3-bis(furyl)-1,1,3,3-tetramethyldisilazide ligands

The bis-furyl substituted disilazide anion, $[N(SiMe_2R)_2]^-$ (R = 2-methylfuryl) has been coordinated to aluminium and magnesium centres. In the case of the aluminium dichloride fragment, both the THF adduct and the base-free complexes have been structurally characterized, the latter of which shows a previously unreported κ^1N,O,O' -bonding mode.

**Michael Nonnenmacher, Doris Kunz, Frank Rominger, Thomas Oeser***J. Organomet. Chem.* 692 (2007) 2554

Palladium(II) complexes bearing methylene and ethylene bridged pyrido-annulated *N*-heterocyclic carbene ligands as active catalysts for Heck and Suzuki–Miyaura cross-coupling reactions

Bridged pyrido annulated *N*-heterocyclic bis(carbenes) are generated and serve as bidentate ligands for palladium(II) complexes that are fully characterized and act as catalyst precursor in C–C coupling reactions.

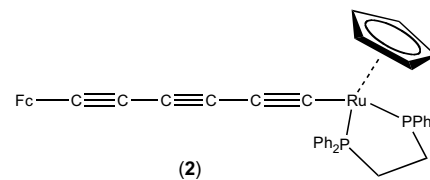


Michael I. Bruce, Paul A. Humphrey,
Martyn Jevric, Brian W. Skelton,
Allan H. White

J. Organomet. Chem. 692 (2007) 2564

Preparation, structure and some chemistry of
 $\text{FcC}\equiv\text{CC}\equiv\text{CC}\equiv\text{CRu}(\text{dppe})\text{Cp}$

The synthesis of $\text{Fc}(\text{C}\equiv\text{C})_3\text{Ru}(\text{dppe})\text{Cp}$ (**2**) from $\text{Fc}(\text{C}\equiv\text{C})_3\text{SiMe}_3$ and $\text{RuCl}(\text{dppe})\text{Cp}$ is described, together with its reactions with tne to give the tetracyano-dienyl $\text{FcC}\equiv\text{CC}\equiv\text{C}\{\text{C}=\text{C}(\text{CN})_2\}_2\text{Ru}(\text{dppe})\text{Cp}$ (**3**) and -cyclobutenyl $\text{FcC}\equiv\text{CC}\equiv\text{C}\{\text{C}=\text{CC}(\text{CN})_2\text{C}(\text{CN})_2\}\text{Ru}(\text{dppe})\text{Cp}$ (**4**), with $\text{Co}_2(\mu\text{-dppm})_n(\text{CO})_{8-2n}$ ($n = 0, 1$) to give $\text{FcC}_2\{\text{Co}_2(\text{CO})_6\}\text{C}_2\{\text{Co}_2(\text{CO})_6\}\text{C}\equiv\text{CRu}(\text{dppe})\text{Cp}$ (**5**) and $\text{FcC}\equiv\text{CC}\equiv\text{CC}_2\{\text{Co}_2(\mu\text{-dppm})(\text{CO})_4\}\text{Ru}(\text{dppe})\text{Cp}$ (**6**), respectively, and with $\text{Os}_3(\text{CO})_{10}(\text{NCMe})_2$ to give $\text{Os}_3\{\mu_3\text{-C}_2\text{C}\equiv\text{CC}\equiv\text{C}[\text{Ru}(\text{dppe})\text{Cp}]\}(\text{CO})_{10}$ (**7**). On standing in solution, the latter isomerises to the cyclo-metallated derivative $\text{Os}_3(\mu\text{-H})\{\mu_3\text{-C}[\text{Ru}(\text{dppe})\text{Cp}]\text{CCC}[(\eta\text{-C}_3\text{H}_5)\text{FeCp}]\}(\text{CO})_8$ (**8**).

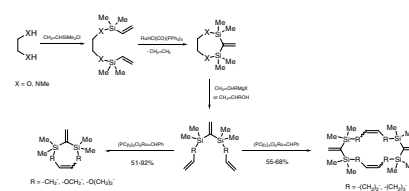


Grzegorz Hreczycho, Piotr Pawluć,
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J. Organomet. Chem. 692 (2007) 2575

New cyclic and macrocyclic silaolefins *via* ring-closing metathesis of 1,1-bis(silyl)ethene-tethered dienes

Dialkenyl-substituted 1,1-bis(silyl)ethenes of the general formulae $(\text{CH}_2=\text{CH}(\text{CH}_2)_n\text{Me}_2\text{-Si})_2\text{C}=\text{CH}_2$ and $(\text{CH}_2=\text{CH}(\text{CH}_2)_n\text{OMe}_2\text{-Si})_2\text{C}=\text{CH}_2$, (where $n = 1-3$) have been successfully converted into new silacyclic or silamacrocyclic compounds in the presence of ruthenium benzylidene complex (first generation Grubbs catalyst).

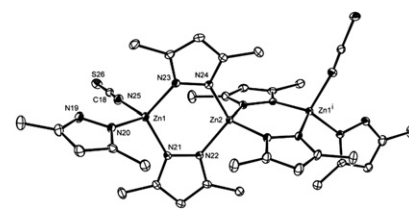


Attila Kovács, Katalin Mészáros Szécsényi,
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J. Organomet. Chem. 692 (2007) 2582

Synthesis under self-controlled reaction conditions: Reaction of tetraamminezinc(II) chloride with 3,5-dimethyl-1-thiocarboxamide pyrazole

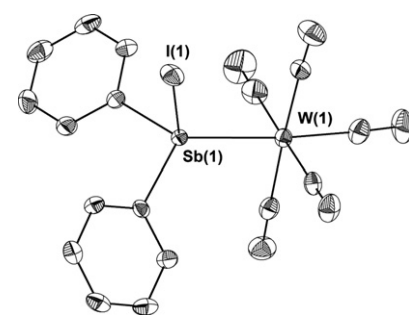
The trinuclear $[\text{Zn}_3(\text{Hdmpz})_2(\text{dmpz})_4(\text{NCS})_2]$ complex (*Hdmpz*: 3,5-dimethylpyrazole) has been synthesized by the title reaction. The complex has been characterized by X-ray diffraction, FT-IR spectroscopy, thermal analysis and quantum chemical computations.



H.J. Breunig, T. Borrmann, E. Lork, C.I. Rač
J. Organomet. Chem. 692 (2007) 2593

Syntheses, structures and DFT study of
 $[\text{W}(\text{CO})_5(\text{Ph}_2\text{SbX})]$ $\text{X} = \text{Cl}, \text{Br}, \text{I}$

The syntheses and the molecular structures of $[\text{W}(\text{CO})_5(\text{Ph}_2\text{SbX})]$, $\text{X} = \text{Cl}, \text{Br}, \text{I}$ are reported. The complexes are readily prepared in high yields and they are remarkably stable. The bonding in $[\text{W}(\text{CO})_5(\text{Ph}_2\text{SbCl})]$ has been investigated by DFT methods.



Note

**Chiara Dinoi, Petr Prihodchenko,
Funda Demirhan, Jenny Gun, Ovadia Lev,
Jean-Claude Daran, Rinaldo Poli**

J. Organomet. Chem. 692 (2007) 2599

Reduction of $[\text{Cp}_2^*\text{Mo}_2\text{O}_5]$ by mercapto-
propionic acid in an aqueous medium.
Isolation and characterization of a dinuclear
oxo- and 3-sulfido-propionato(2-)-bridged
molybdenum(IV) compound

Compound $\text{HSCH}_2\text{CH}_2\text{COOH}$ reduces and
coordinates molybdenum upon interaction
with $\text{Cp}_2^*\text{Mo}_2\text{O}_5$, to yield $\text{Cp}_2^*\text{Mo}_2(\mu\text{-O})(\mu\text{-SCH}_2\text{CH}_2\text{CO}_2)_2$ but, unlike the closely related
 HSCH_2COOH substrate, does not lead to C-S
bond cleavage.

