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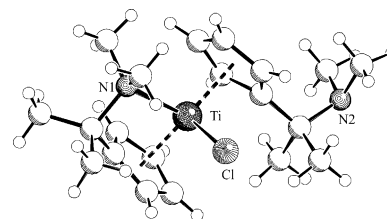
Regular Papers

Vasily V. Kotov, Roland Fröhlich,
Gerald Kehr, Gerhard Erker

J. of Organomet. Chem. 676 (2003) 1

Synthesis and structural features of $[(C_5H_4-CMe_2NMe_2)_2TiCl]$, a bis(cyclopentadienyl)-Ti(III) complex with internal dimethyl-amino coordination

Treatment of the oligomeric reagent $[C_5H_4-CMe_2-NMe_2]Li$ (**2**) with $TiCl_3(THF)_3$ gives the titanium(III) complex $(C_5H_4-CMe_2-NMe_2)_2TiCl$ (**5**) that adopts a pseudotetrahedral bent metallocene structure in the crystal where one of the pendant $-CMe_2-NMe_2$ amino donor ligands is intramolecularly coordinated to the titanium center.

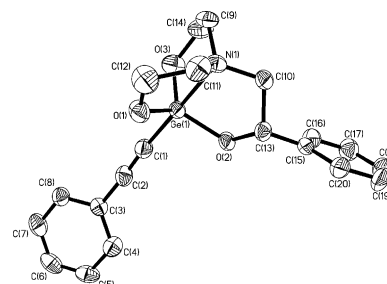


Ekaterina V. Gauchenova, Sergey S. Karlov,
Anastasia A. Selina,
Eleonora S. Chernyshova,
Andrei V. Churakov, Judith A.K. Howard,
Nikolaj A. Troitsky, Stanislav N. Tandura,
Jörg Lorberth, Galina S. Zaitseva

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Synthesis and characterization of 3- and 4-phenylgermatranes: X-ray crystal structures of $N(CH_2CH_2O)_2(CH_2CHPhO)GeZ$ ($Z = F, OSiMe_3, C\equiv CPh$) and $N(CH_2CH_2O)_2(CHPhCH_2O)GeOH$

Reaction of excess of product A $[(HOCH_2-CH_2)_2NCH_2CH(Ph)OH]$ (**1**): $(HOCH_2CH_2)_2-NCH(Ph)CH_2OH$ (**2**) = 9:1] with $GeCl_4$ led to a mixture of 1-chloro-3-phenylgermatrane (**3**) and 1-chloro-4-phenylgermatrane (**4**).

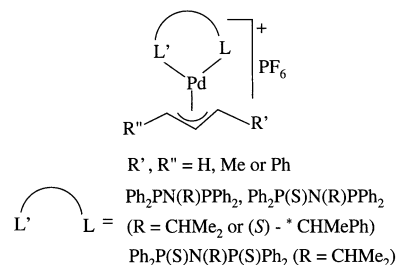


Swadhin K. Mandal, G.A. Nagana Gowda,
Setharampattu S. Krishnamurthy,
Chong Zheng, Shoujian Li,
Narayan S. Hosmane

J. of Organomet. Chem. 676 (2003) 22

Diastereomerism in palladium(II) allyl complexes of P,P-, P,S- and S,S-donor ligands, $Ph_2P(E)N(R)P(E')Ph_2$ [$R = CHMe_2$ or (*S*)-* $CHMePh$; $E = E' =$ lone pair or S]; solution behaviour, X-ray crystal structure and catalytic allylic alkylation reactions

The reactions of achiral homodonor diphosphazane ligands, $Ph_2P(E)N(CHMe_2)P(E')Ph_2$ [$E = E' =$ lone pair (**1**) or S (**2**)] with the chloro bridged palladium dimers, $[Pd(\eta^3-1,3-R''-R'-C_3H_3)(\mu-Cl)]_2$ ($R', R'' = H, Me$ or Ph) in the presence of NH_4PF_6 give cationic η^3 -allyl palladium complexes, $[Pd(\eta^3-1,3-R''-R'-C_3H_3)(L-L')]$.



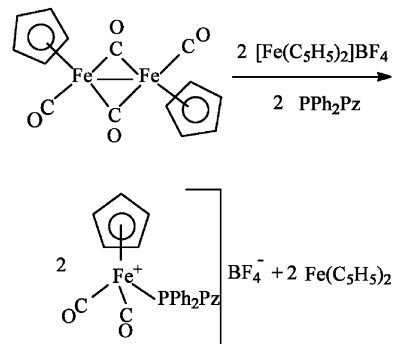
Rosa-María Tribó, Josep Ros,
Josefina Pons, Ramón Yáñez,
Angel Álvarez-Larena,
Joan-Francesc Piniella

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New stable cyclopentadienyl iron(II) complexes containing 3,5-dimethylpyrazolyl phosphine

X-ray structure of $[\text{FeCp}(\text{CO})_2\text{PPh}_2(\text{Me}_2\text{Pz})]\text{BF}_4$

Very stable complexes of general formula $[\text{FeCp}(\text{CO})_x\text{Ph}_2\text{P}(\text{Me}_2\text{Pz})]\text{BF}_4$, where $x = 1(1)–2(2)$ were prepared by reaction of the 3,5-dimethylpyrazolylphosphine ligand with $[\text{Fe}_2(\text{CO})_2(\text{C}_5\text{H}_5)_2]$. The X-ray structure of $[\text{FeCp}(\text{CO})_2\text{PPh}_2(\text{Me}_2\text{Pz})]\text{BF}_4$ has been determined.

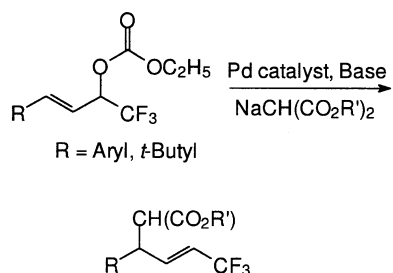


Takashi Okano, Hiroyoshi Matsubara,
Takahiro Kusakawa, Makoto Fujita

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The polar effect on the regiochemistry of nucleophilic substitution of trifluoromethylated π -allylpalladium complex

π -Allylpalladium-assisted nucleophilic substitution of trifluoromethylated cinnamyl carbonates revealed that the regiochemistry of the reaction is more predominantly determined by the polar effect of the electron-withdrawing group than the steric effect of the substituents on the allylic termini.

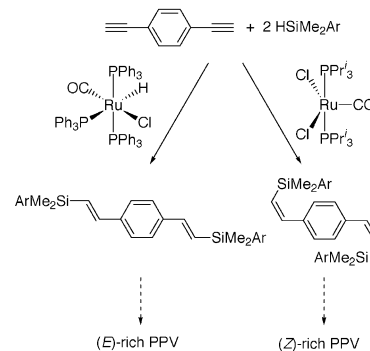


Hiroyuki Katayama, Masato Nagao,
Rie Moriguchi, Fumiyuki Ozawa

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Stereocontrolled synthesis of (*E*)- and (*Z*)-poly(*p*-phenylenevinylene)s via ruthenium-catalyzed hydrosilylation of *p*-diethynylbenzene

Stereocontrolled synthesis of poly(phenylenevinylene)s (PPVs) with (*E*)- and (*Z*)-vinylene units has been examined. Hydrosilylation of *p*-diethynylbenzene with HSiMe_2Ar catalyzed by $\text{RuHCl}(\text{CO})(\text{PPh}_3)_3$ or $\text{RuCl}_2(\text{CO})(\text{PPr}'_3)_2$ proceeds in high stereoselectivity. The resulting (*E,E*)- and (*Z,Z*)-isomers of 1,4-bis(2-silylphenyl)benzene undergo palladium-catalyzed polycondensation with 2,5-dicyloxy-1,4-diodobenzene to give (*E*)-rich and (*Z*)-rich PPVs.

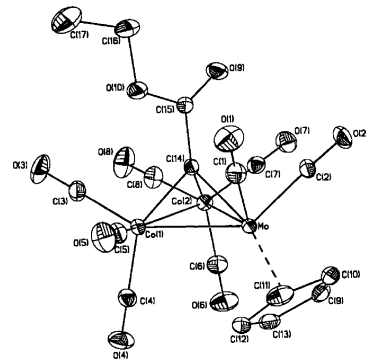


Yu-Hua Zhang, Pu Liu, Chun-Gu Xia,
Bin Hu, Yuan-Qi Yin

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Study of metal exchange reactions in cobalt containing clusters

Treatment of the linked cluster $\{[(\mu_3\text{-C})\text{R}]\text{Co}_2\text{Mo}(\text{CO})_8[\eta^5\text{-C}_5\text{H}_4\text{C}(\text{O})]\}_2\text{C}_6\text{H}_4\text{-}p$ (**1a**, $\text{R} = \text{CO}_2\text{Et}$; **1b**, $\text{R} = \text{C}_6\text{H}_5$) with the substituted cyclopentadienyl tricarbonyl molybdenum anion $[\text{Mo}(\text{CO})_3(\eta^5\text{-C}_5\text{H}_4\text{R}')^-]$ in THF gave rise to the formation of the single cluster complex $[(\mu_3\text{-C})\text{R}]\text{Co}_2\text{Mo}(\text{CO})_8(\eta^5\text{-C}_5\text{H}_4\text{R}')$ (**2a**, $\text{R} = \text{CO}_2\text{Et}$, $\text{R}' = \text{H}$; **2b**, $\text{R} = \text{CO}_2\text{Et}$, $\text{R}' = \text{C}(\text{O})\text{Me}$; **2c**, $\text{R} = \text{R}' = \text{CO}_2\text{Et}$; **2d**, $\text{R} = \text{C}_6\text{H}_5$, $\text{R}' = \text{CO}_2\text{Et}$) as the only product.

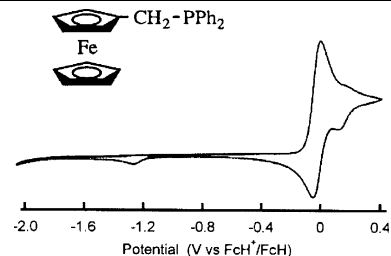


Alison J. Downard, Nicholas J. Goodwin, William Henderson

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Electrochemistry of ferrocenylphosphines FcCH_2PR_2 ($\text{Fc} = (\eta^5\text{-C}_5\text{H}_5)\text{Fe}(\eta^5\text{-C}_5\text{H}_4)$; $\text{R} = \text{Ph}$, CH_2OH and $\text{CH}_2\text{CH}_2\text{CN}$), and some phosphine oxide, phosphine sulfide, phosphonium and metal complex derivatives

Detailed electrochemical studies of ferrocenylphosphine ligands FcCH_2PR_2 ($\text{Fc} = (\eta^5\text{-C}_5\text{H}_5)\text{Fe}(\eta^5\text{-C}_5\text{H}_4)$; $\text{R} = \text{Ph}$, CH_2OH and $\text{CH}_2\text{CH}_2\text{CN}$) and some phosphine oxide, phosphine sulfide, phosphonium and metal derivatives are described.

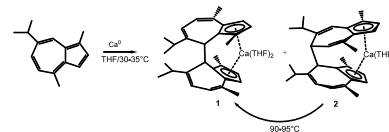


Piet-Jan Sinnema, Pamela J. Shapiro, Britta Höhn, Brendan Twamley

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Calcium-mediated fulvene couplings. 3. Reductive coupling of guaiazulene with activated calcium to give a mixture of 8,6' and 8,8' (diguaiazulenide)calcium isomers. Thermal rearrangement of the 8,6' isomer to the 8,8' isomer and X-ray crystal structure of the 8,8' isomer

Two *ansa*-calcocene isomers are formed in roughly equal amounts in the reductive coupling of guaiazulene with activated calcium, an 8,8'-coupled *rac* isomer and an 8,6'-*meso*-like isomer. The latter isomer is converted almost entirely to the former isomer upon thermolysis at 90–95 °C.

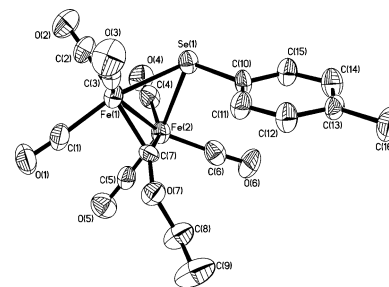


Li-Cheng Song, Yi Sun, Qing-Mei Hu, Yang Liu

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Synthesis of bridging carbyne butterfly Fe/Se cluster complexes via reaction of complex anions $[(\mu\text{-RSe})(\mu\text{-CO})\text{Fe}_2(\text{CO})_6]^-$ Crystal structure of $(\mu\text{-EtOC})(\mu\text{-}p\text{-MeC}_6\text{H}_4\text{-Se})\text{Fe}_2(\text{CO})_6$

The $[\text{Et}_3\text{NH}]^+$ salts of anions $[(\mu\text{-RSe})(\mu\text{-CO})\text{Fe}_2(\text{CO})_6]^-$ (**1**) reacted with Et_3OBF_4 in benzene at room temperature to give a series of new butterfly Fe/Se cluster complexes with a general formula $(\mu\text{-EtOC})(\mu\text{-RSe})\text{Fe}_2(\text{CO})_6$ (**2–8**, $\text{R} = p, m, \text{ or } o\text{-MeC}_6\text{H}_4, \alpha\text{-C}_{10}\text{H}_7, p\text{-MeO C}_6\text{H}_4, p\text{-BrC}_6\text{H}_4, p\text{-ClC}_6\text{H}_4$). The crystal structure of **2** ($\text{R} = p\text{-MeC}_6\text{H}_4$) is described.

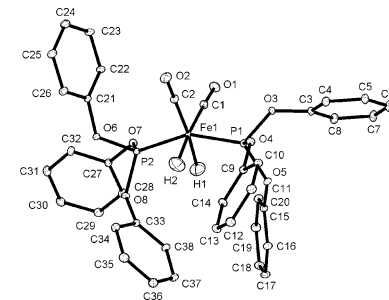


Nam Nhat Ho, Robert Bau, Sax A. Mason

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Neutron diffraction study of the highly distorted octahedral complex $\text{FeH}_2(\text{CO})_2\text{-P}(\text{O}^i\text{Ph})_3$

An accurate single crystal neutron diffraction characterization of Fe–H distances is reported in the structure determination of the mononuclear dicarbonyl complex $\text{FeH}_2(\text{CO})_2\text{P}(\text{O}^i\text{Ph})_3$. The two hydrides are bonded terminally to the Fe atom, and the complex as a whole has a highly distorted octahedral geometry. The results of this study are compared with the other structures of the type *cis*- FeH_2L_4 .

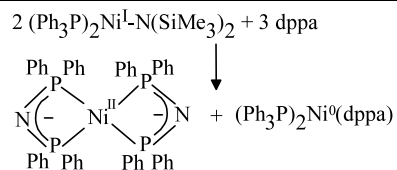


Vyacheslav V. Sushev, Alexander N. Kornev,
Yana V. Fedotova, Yuri A. Kursky,
Tatiana G. Mushtina, Gleb A. Abakumov,
Lev N. Zakharov, Arnold L. Rheingold

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Nickel(II) and nickel(0) derivatives of bis-(diphenylphosphino)amine: $[N(PPh_2)_2]_2Ni$, $(Ph_3P)_2Ni[(Ph_2P)_2NH]$. Synthesis, characterization, and some properties

Disproportionation of $(Ph_3P)_2Ni-N(SiMe_3)_2$ in the presence of bis(diphenylphosphino)amine, yields Ni(II) and Ni(0) phosphinoamide complexes: $[N(Ph_2P)_2]_2Ni$ (**1**), $(Ph_3P)_2Ni[(Ph_2P)_2NH]$ (**2**). Ether solution, containing **2** and Ph_3P (1:2) reacts with dioxygen (one equivalent) to form hydrogen bonded triphenylphosphino adduct $(Ph_3P)_2Ni[(Ph_2P)_2NH \cdot \cdot OPPh_3]$ (**3**) in high yield.



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