

## Contents

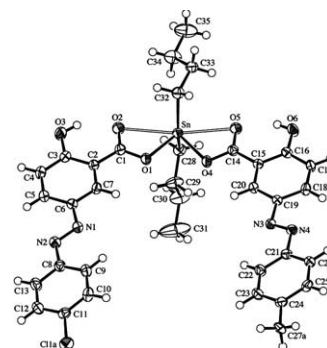
### Regular papers

**Tushar S. Basu Baul, Wandondor Rynjah, Eleonora Rivarola, Claudio Pettinari, Anthony Linden**

*J. Organomet. Chem. 690 (2005) 1413*

Synthesis and characterization of the first diorganotin(IV) complexes containing mixed arylazobenzoic acids and having skew trapezoidal bipyramidal geometry

Three diorganotin(IV) complexes of the type,  $[R_2Sn(L^aH)(L^bH)]$  ( $R = nBu$  or  $Me$  and,  $L^aH$  and  $L^bH$  are two different 5-[(*E*)-2-(aryl)-1-diazenyl]-2-hydroxybenzoate residues; a: aryl = 4'-Cl- (held constant) and b: aryl = 4'-Me or 4'-Br) have been prepared and characterized. These complexes adopt the usual dicarboxylato structural type with a skew-trapezoidal bipyramidal arrangement around the tin atom as revealed by X-ray crystallography.

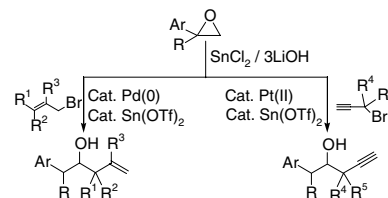


**Moloy Banerjee, Ujjal Kanti Roy, Pradipta Sinha, Sujit Roy**

*J. Organomet. Chem. 690 (2005) 1422*

Tuning the reactivity of organotin(IV) by LiOH: allylation and propargylation of epoxides via redox transmetalation

Nucleophilic reactivity of organotin is enhanced by stoichiometric LiOH to give homoallyl and homopropargyl alcohols from allyl halide and arylepoxide under the aegis of catalytic Pd(0) and Pt(II). This 2-carbon extension strategy proceeds via tandem epoxide rearrangement-carbonyl addition and further reinforces earlier views on the enhanced reactivity of hydroxy derivatives of organotin such as  $RSnX_n(OH)_{3-n}$ .

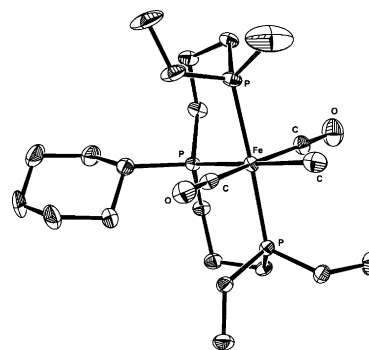


**Piotr Jaunky, Helmut W. Schmalle, Olivier Blacque, Thomas Fox, Heinz Berke**

*J. Organomet. Chem. 690 (2005) 1429*

Iron(0) and ruthenium(0) complexes with tridentate phosphonite ligands and their potential for ketene formation from methyl iodide, CO and a base

Iron(0) and ruthenium(0) dicarbonyl complexes bearing various tridentate phosphonite ligands  $RP[(CH_2)_3P(OR'_2)]_2$  have been prepared and tested for their oxidative addition capability with methyl iodide. Cationic methyl and subsequently acetyl complexes were obtained, from which a selection was studied with regard to formation of free or metal bound ketene in the presence of a base.

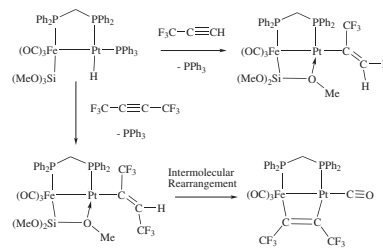


Michael Knorr, Isabelle Jourdain,  
Fernando Villafaña, Carsten Strohmann

*J. Organomet. Chem.* 690 (2005) 1456

Reactivity of silyl-substituted heterobimetallic iron–platinum hydride complexes towards unsaturated molecules: Part II. Insertion of trifluoropropyne and hexafluorobutene into the platinum–hydride bond

Heterobimetallic alkenyl complexes  $[(OC)_3Fe\{\mu-Si(OMe)_2(OMe)\}(\mu-dppm)Pt\{C(CF_3)=CH_2\}]$  and  $[(OC)_3Fe\{\mu-Si(OMe)_2(OMe)\}(\mu-dppm)Pt\{C(CF_3)=C(H)CF_3\}]$  have been prepared by the reaction of the heterobimetallic complex  $[(OC)_3Fe\{\mu-Si(OMe)_2(OMe)\}(\mu-Ph_2PCH_2-PPh_2)Pt(H)(PPh_3)]$  with  $HCCF_3$  or  $C_4F_6$ . The latter alkenyl compound rearranges in solution to afford the  $C_4F_6$ -bridged compound  $[(OC)_3Fe(\mu-dppm)(\mu-CF_3C=CCF_3)-Pt(CO)]$ .

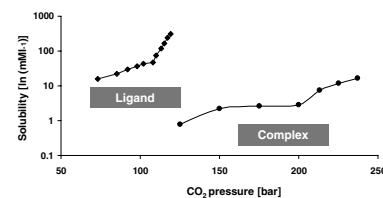


Nicolaus Dahmen, Pia Griesheimer,  
Piotr Makarczyk, Stephan Pitter,  
Olaf Walter

*J. Organomet. Chem.* 690 (2005) 1467

Solubility of *trans*- $Co_2(CO)_6$  [3,5-bis( $CF_3$ )- $C_6H_3P(i-C_3H_7)_2$ ] in dense carbon dioxide

The title compound (**1**) was prepared by the reaction of 3,5-bis( $CF_3$ ) $C_6H_3P(i-C_3H_7)_2$  (**L1**) and  $Co_2(CO)_8$ . Its solubility in supercritical carbon dioxide was measured at varying temperatures and pressures using a modified analytical extraction device. Solubility data were determined in the temperature and pressure ranges between 40 and 70 °C and between 100 and 300 bar, respectively. The solubility of **1** is lower compared to (*p*- $CF_3C_6H_4$ ) $_3P$ , but much higher than for transition metal complexes bearing phosphines without fluorinated substituents.

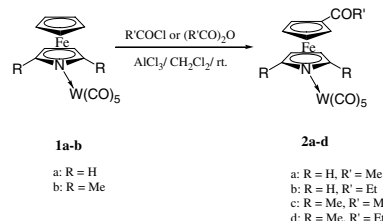


Konrad Kowalski, Janusz Zakrzewski,  
Lucjan Jerzykiewicz

*J. Organomet. Chem.* 690 (2005) 1474

Friedel-Crafts acylation of  $W(CO)_5$ -complexes of azaferrocenes

Blocking of the lone pair of electrons on the nitrogen atom in azaferrocene by coordination to the  $W(CO)_5$  moiety (as in complexes **1a–b**) enables Friedel-Crafts acylation of this metallocene. The reaction occurs selectively at the cyclopentadienyl ligand in 10–50% yield. The X-ray structure of **2a** was determined.

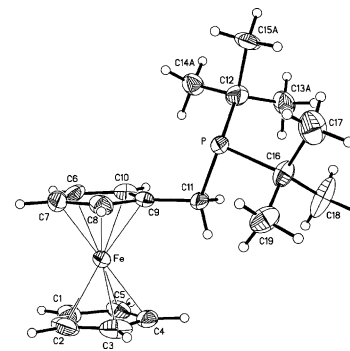


Michael D. Slinger, Grant A. Broker,  
Scott T. Griffin, Robin D. Rogers,  
Kevin H. Shaughnessy

*J. Organomet. Chem.* 690 (2005) 1478

Di-*t*-butyl(ferrocenylmethyl)phosphine: air-stability, structural characterization, coordination chemistry, and application to palladium-catalyzed cross-coupling reactions

Di-*t*-butyl(ferrocenylmethyl)phosphine (**1**) is an air stable ligand as a solid with strong electron donating ability. Ligand **1** in combination with  $Pd_2(dba)_3$  showed Suzuki and Heck coupling activity. Complexation of **1** with  $Pd_2(dba)_3$  ( $L:Pd \leq 1$ ) gave  $(1)_2Pd^0$  as well as an apparent monophosphine complex.

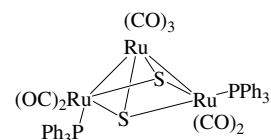


**Mark G. Humphrey, Bryce Lockhart-Gillett, Marek Samoc, Brian W. Skelton, Vicki-Anne Tolhurst, Allan H. White, Adele J. Wilson, Brian F. Yates**

*J. Organomet. Chem.* 690 (2005) 1487

Synthesis, structure and optical limiting properties of organoruthenium–chalcogenide clusters

A series of organoruthenium sulfide cluster compounds has been prepared from the reaction of  $\text{Ru}_3(\text{CO})_{12}$  and  $\text{SPPH}_3$ . These compounds also undergo ligand substitution reaction to form clusters with up to three  $\text{PPh}_3$  ligands. The optical limiting properties of these compounds and their selenide analogues at 523 nm were investigated using the Z-scan method.

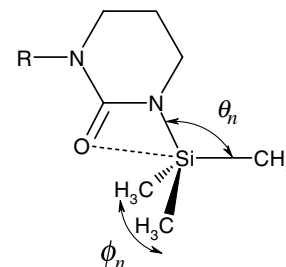


**Roland Szalay, Gábor Pongor, Veronika Harmat, Zsolt Böcskei, Dezső Knausz**

*J. Organomet. Chem.* 690 (2005) 1498

Surprisingly great difference in reactivity depending upon the ring size: solvolysis and molecular structure study of some *N*-trimethylsilylated cyclic ureas

The molecular structure and the octanolysis rate of *N*-trimethylsilylated cyclic ureas was studied. The half-lives of the five-membered rings are at least three orders of magnitude higher than those of the six- and seven-membered analogues. Relationship between the reactivity and the extent of the pseudopentacoordination around silicon was found.

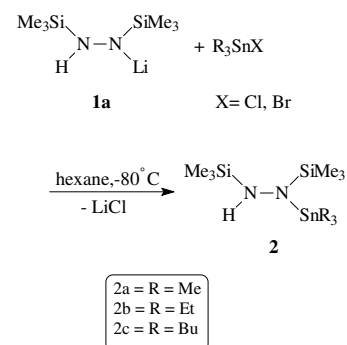


**J. Kataria, S.K. Vasisht, A. Sharma, P. Venugopalan**

*J. Organomet. Chem.* 690 (2005) 1507

Silyl stabilized azanes: reactions of lithiumbis(trimethylsilyl)hydrazine with trialkyltin halides

Reactions of monolithium bis(trimethylsilyl)hydrazine (**1a**) with trialkyltin halides produce (trialkylstannyl)bis(trimethylsilyl)hydrazines (**2**). These monostannylated products disproportionate at different rates to give distannylated products (**3**). The stability of monostannylated product increases with the increase in the size of the alkyl group attached to the tin atom.

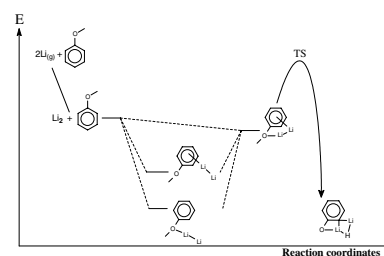


**Oscar Mendoza, Laurence P. Cuffe, Franz-Josef K. Rehm, Matthias Tacke**

*J. Organomet. Chem.* 690 (2005) 1511

The cocondensation reaction of lithium atoms and anisole: an experimental and theoretical study of the reaction pathway

The cocondensation reaction of lithium atoms and pure anisole leads to an *ortho* CH activation and the formation of lithium hydride. This simple two-component system allows for this detailed DFT investigation of the reaction mechanism with included donor molecules.

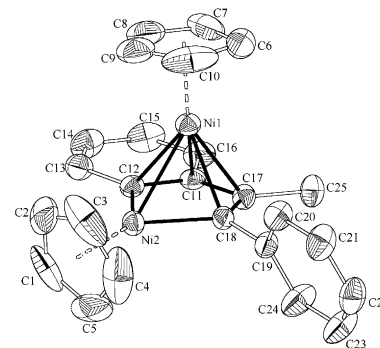


**Piotr Buchalski, Antoni Pietrzykowski,  
Stanisław Pasynkiewicz,  
Lucjan B. Jerzykiewicz**

*J. Organomet. Chem. 690 (2005) 1523*

Synthesis and structure of  $(\eta^5\text{-cyclopentadienyl})(\eta^5\text{-}(1\text{-}(\eta^5\text{-cyclopentadienyl})\text{-2-phenyl-3-methyl-1-nickelindenyl})\text{nickel}$  – the first analogue of nickelocene with a nickel-acyclopentadienyl ring

A new metallacyclic compound  $(\eta^5\text{-cyclopentadienyl})(\eta^5\text{-}(1\text{-}(\eta^5\text{-cyclopentadienyl})\text{-2-phenyl-3-methyl-1-nickelindenyl})\text{nickel}$  was synthesised and characterised. Its molecular and crystal structure was determined by X-ray measurements. This is the first example of the homometallic metallametalocene of nickel. Like in nickelocene the central nickel atom has 20 valence electrons, so the compound can be regarded as the first nickelacyclic analogue of nickelocene.

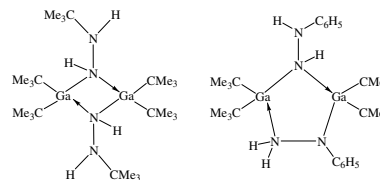


**Werner Uhl, Christian H. Emden**

*J. Organomet. Chem. 690 (2005) 1529*

Adducts of organogallium chlorides with hydrazines and the formation of dimeric dialkylgallium hydrazides possessing different ring sizes

Dialkylgallium chlorides and hydrazines gave adducts  $\text{R}_2\text{GaCl} \leftarrow \text{NH}_2\text{NH}(\text{R}')$  which are suitable starting materials for the generation of organogallium hydrazides by deprotonation and salt elimination.

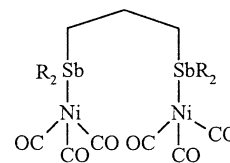


**Michael D. Brown, William Levason,  
Joanna M. Manning, Gillian Reid**

*J. Organomet. Chem. 690 (2005) 1540*

The transition metal carbonyl complexes of 1,3-bis(di-R-stibino)propanes (R = Me or Ph)

Complexes of two distibinopropanes,  $\text{R}_2\text{Sb}(\text{CH}_2)_3\text{SbR}_2$  (R = Me or Ph), with the carbonyls of Cr, Mo, W, Fe, Mn and Ni are prepared and characterised by a range of spectroscopies. The bonding abilities of these ligands are compared with those of other stibines and with Group 16 analogues (dithio-, diseleno- and ditelluro-propanes).

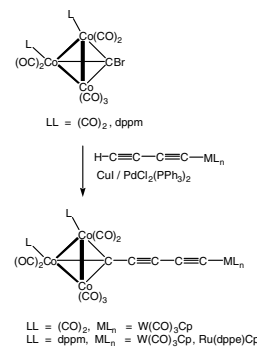


**Michael I. Bruce, Kathy A. Kramarczuk,  
Natasha N. Zaitseva, Brian W. Skelton,  
Allan H. White**

*J. Organomet. Chem. 690 (2005) 1549*

Some complexes containing carbon chains end-capped with tungsten or ruthenium groups and tricobalt carbonyl clusters

The Pd(0)/Cu(I)-catalysed reactions between  $\text{Co}_3(\mu_3\text{-CBr})(\text{CO})_7(\text{LL})$  [LL =  $(\text{CO})_2$ ,  $\mu\text{-dppm}$ ] and  $\text{HC}\equiv\text{CC}\equiv\text{C}[\text{ML}_n]$  [ $\text{ML}_n = \text{W}(\text{CO})_3\text{Cp}$  or  $\text{Ru}(\text{dppe})\text{Cp}^*$ ] give the  $\text{C}_5$  complexes  $\{\text{L}_n\text{M}\}\text{C}\equiv\text{CC}\equiv\text{C}\{\text{Co}_3(\text{CO})_9\}$ . An attempt to prepare a  $\text{C}_3$  analogue from  $\text{Ru}(\text{C}\equiv\text{CH})(\text{PPh}_3)_2\text{Cp}$  and  $\text{Co}_3(\mu_3\text{-CBr})(\text{CO})_9$  gave instead the acyl derivative  $\{\text{Cp}(\text{Ph}_3\text{P})_2\text{Ru}\}\text{-C}\equiv\text{CC}(\text{O})\text{C}\{\text{Co}_3(\text{CO})_8\text{PPh}_3\}$ .

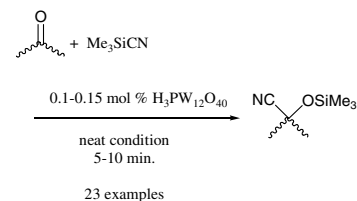


**Habib Firouzabadi, Nasser Iranpoor,  
Abbas Ali Jafari**

*J. Organomet. Chem.* 690 (2005) 1556

Dodecatungestophosphoric acid ( $\text{H}_3\text{PW}_{12}\text{O}_{40}$ ) as a solid green Brnsted acid catalyzes high yielding and efficient trimethylcyano-silylation reactions of aldehydes and ketones by trimethylsilyl cyanide

An efficient solvent-free method is described for the addition of TMSCN to carbonyl groups employing dodecatungestophosphoric acid ( $\text{H}_3\text{PW}_{12}\text{O}_{40}$ ) as a heterogeneous and environmentally benign catalyst. By this method, aromatic, aliphatic, cyclic and heterocyclic aldehydes and ketones are converted into their corresponding cyanotrimethylsilyl ethers in excellent yields (89–98%) in short reaction times (<10 min).

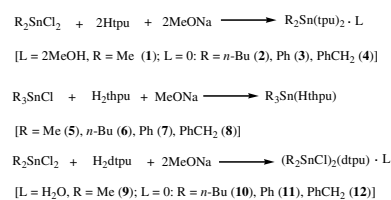


**Chunlin Ma, Jiafeng Sun, Yang Shi,  
Rufen Zhang**

*J. Organomet. Chem.* 690 (2005) 1560

Investigation on coordination modes of organotin(IV) complexes with 6-thiopurine and related ligands

The organotin(IV) complexes  $\text{R}_2\text{Sn}(\text{tpu})_2 \cdot \text{L}$  [ $\text{L} = 2\text{MeOH}$ ,  $\text{R} = \text{Me}$  (**1**);  $\text{L} = 0$ :  $\text{R} = n\text{-Bu}$  (**2**),  $\text{Ph}$  (**3**),  $\text{PhCH}_2$  (**4**)],  $\text{R}_3\text{Sn}(\text{Hthpu})$  [ $\text{R} = \text{Me}$  (**5**),  $n\text{-Bu}$  (**6**),  $\text{Ph}$  (**7**),  $\text{PhCH}_2$  (**8**)] and  $(\text{R}_2\text{SnCl})_2(\text{dtpu}) \cdot \text{L}$  [ $\text{L} = \text{H}_2\text{O}$ ,  $\text{R} = \text{Me}$  (**9**);  $\text{L} = 0$ :  $\text{R} = n\text{-Bu}$  (**10**),  $\text{Ph}$  (**11**),  $\text{PhCH}_2$  (**12**)] have been synthesized, where tpu, Hthpu and dtpu are the anions of 6-thiopurine (Htpu), 2-thio-6-hydroxypurine ( $\text{H}_2\text{thpu}$ ) and 2,6-dithiopurine ( $\text{H}_2\text{dtpu}$ ), respectively. All the complexes **1–12** have been characterized by elemental, IR,  $^1\text{H}$ ,  $^{13}\text{C}$  and  $^{119}\text{Sn}$  NMR spectroscopy analyses. And complexes **1**, **2**, **7** and **9** have also been determined by X-ray crystallography.

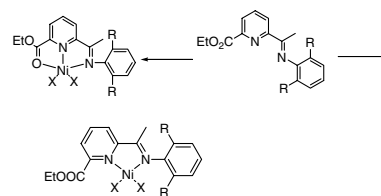


**Xiubo Tang, Wen-Hua Sun, Tielong Gao,  
Junxian Hou, Jiutong Chen, Wei Chen**

*J. Organomet. Chem.* 690 (2005) 1570

Nickel (II) complexes bearing 2-ethylcarboxylate-6-iminopyridyl ligands: synthesis, structures and their catalytic behavior for ethylene oligomerization and polymerization

A series of nickel (II) complexes bearing 2-carboxylate-6-iminopyridine ligands were synthesized and characterized by IR, microanalysis and X-ray diffraction. Upon activation with methylaluminoxane (MAO), these complexes display good catalytic activities for ethylene oligomerization and polymerization.

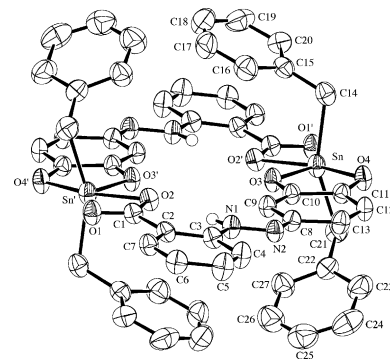


**Tushar S. Basu Baul, Keisham Surjit Singh,  
Antonín Lyčka, Michal Holčapek,  
Anthony Linden**

*J. Organomet. Chem.* 690 (2005) 1581

Synthesis of a cyclic dinuclear organotin carboxylate via simultaneous debenzoylation and decarbonylation reactions: X-ray crystal structure of  $[(\text{PhCH}_2)_2\{\text{O}_2\text{CC}_6\text{H}_4\{\text{N}(\text{H})\text{N}=\text{C}(\text{C}_6\text{H}_3-4(=\text{O})-5-\text{O})\}-o\}\text{Sn}]_2$

An unprecedented complex,  $[(\text{PhCH}_2)_2\{\text{O}_2\text{CC}_6\text{H}_4\{\text{N}(\text{H})\text{N}=\text{C}(\text{C}_6\text{H}_3-4(=\text{O})-5-\text{O})\}-o\}\text{Sn}]_2$  (**1**), is obtained as the exclusive reaction product from the reaction of sodium 2-[(*E*)-2-(3-formyl-4-hydroxyphenyl)-1-diazenyl]benzoate and  $(\text{PhCH}_2)_3\text{SnCl}$ . Complete assignments were achieved by  $^1\text{H}$ ,  $^{13}\text{C}$ , 2D  $^1\text{H}$ - $^{119}\text{Sn}$  HMQC ( $^{119}\text{Sn}$  chemical shift), 1D gs  $^1\text{H}$ - $^{15}\text{N}$  HMQC ( $^1J(^{15}\text{N}, ^1\text{H})$  coupling constant) NMR and ESI-MS. Two polymorphs of compound **1** (**1a** and **1b**) were identified by X-ray diffraction analyses and their structures differ primarily in the packing arrangement afforded by the benzyl groups.

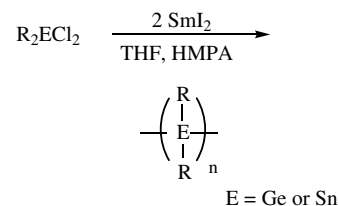


**Takushi Azemi, Yasuo Yokoyama,  
Kunio Mochida**

*J. Organomet. Chem.* 690 (2005) 1588

Development of novel and efficient synthesis of group 14 element (Ge and Sn) catenates by use of samarium (II) diiodide

Group 14 element catenates such as digermanes, trigermanes (and analogues), polygermanes, and polystannanes are efficiently synthesized by use of one-electron reducing agent  $\text{SmI}_2$  under mild homogeneous conditions in good yields.

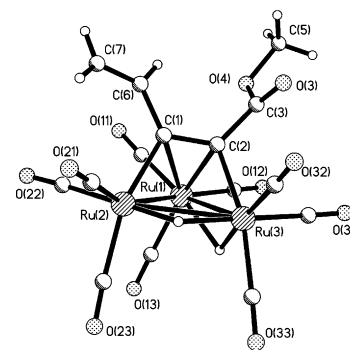


**Giuliana Gervasio, Domenica Marabello,  
Enrico Sappa, Andrea Secco**

*J. Organomet. Chem.* 690 (2005) 1594

The reaction of  $\text{Ru}_3(\text{CO})_{12}$  with 1,4-dichloro-but-2-yne in basic methanolic solution. Synthesis and crystal structure of  $(\mu\text{-H})_2\text{-Ru}_3(\text{CO})_9\{\mu_3\text{-}\eta^2\text{-}[\text{H}_2\text{C}=\text{C}(\text{H})\text{C}\equiv\text{CC}(\text{=O})\text{O-CH}_3]\}$

The title complex is obtained by reacting  $\text{Ru}_3(\text{CO})_{12}$  with 1,4-dichloro-but-2-yne ( $\text{ClCH}_2\text{C}\equiv\text{CCH}_2\text{Cl}$ , DCB) in  $\text{CH}_3\text{OH}/\text{KOH}$  solution (followed by acidification with  $\text{HCl}$ ).

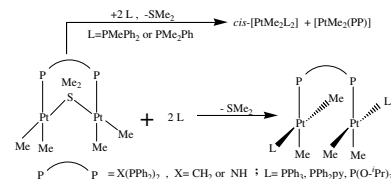


**Mehdi Rashidi, Katayoon Kamali,  
Michael C. Jennings, Richard J. Puddephatt**

*J. Organomet. Chem.* 690 (2005) 1600

Binuclear dimethylplatinum (II) complexes each containing monodentate phosphine ligands and a bridging diphosphine ligand  $\text{X}(\text{PPh}_2)_2$ ,  $\text{X} = \text{CH}_2$  or  $\text{NH}$ . Molecular structure of *cis,cis*- $[\text{Me}_2(\text{pyPh}_2\text{P})\text{Pt}(\mu\text{-Ph}_2\text{P-NHPPH}_2)\text{Pt}(\text{PPh}_2\text{py}) \text{Me}_2] \cdot 2\text{CH}_2\text{Cl}_2$

A series of unusual organodiplatinum(II) complexes in which the dinuclear integrity is held by only one bridging ligand  $\text{X}(\text{PPh}_2)_2$  with no metal-metal bonding has been prepared by a general route.

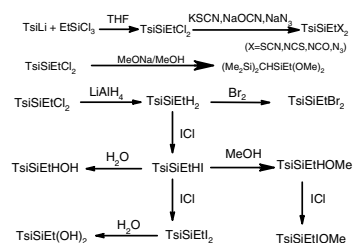


**Kazem D. Safa, A. Hassan pour,  
Mohammad H. Nasirtabrizi,  
U. Mosaei Oskoei**

*J. Organomet. Chem.* 690 (2005) 1606

Synthesis and reactions of [tris(trimethylsilyl)methyl]ethyl dichlorosilane

The crowded  $\text{TsiSiEtXX}'$  ( $\text{X} = \text{X}' = \text{Cl}$ ,  $\text{X} = \text{X}' = \text{SCN}$ ,  $\text{X} = \text{X}' = \text{NCS}$ ,  $\text{X} = \text{X}' = \text{NCO}$ ,  $\text{X} = \text{X}' = \text{N}_3$ ,  $\text{X} = \text{X}' = \text{H}$ ,  $\text{X} = \text{X}' = \text{Br}$ ,  $\text{X} = \text{X}' = \text{I}$ ,  $\text{X} = \text{X}' = \text{OH}$ ,  $\text{X} = \text{H}$ ;  $\text{X}' = \text{I}$ ,  $\text{X} = \text{H}$ ;  $\text{X}' = \text{OH}$ ,  $\text{X} = \text{H}$ ;  $\text{X}' = \text{OMe}$ ,  $\text{X} = \text{I}$ ;  $\text{X}' = \text{OMe}$ ) have been synthesized by electrophilic and nucleophilic reagents. When  $\text{TsiSiEtCl}_2$  was treated with  $\text{NaOMe}/\text{MeOH}$  it gave  $(\text{Me}_3\text{Si})_2\text{CHSiEt}(\text{OMe})_2$ .

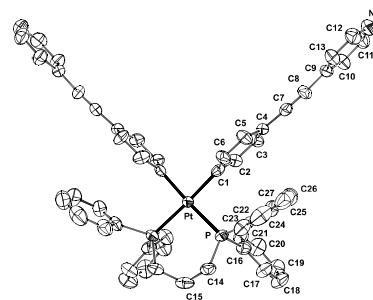


Montserrat Ferrer, Laura Rodríguez,  
Oriol Rossell, Xavier Solans

*J. Organomet. Chem.* 690 (2005) 1612

Synthesis of palladium and platinum donor complexes and study of their participation in self-assembly reactions. X-ray crystal structure of  $[\text{Pt}(\text{C}_6\text{H}_4\text{C}\equiv\text{CC}_5\text{H}_4\text{N})_2(\text{dppp})]$  (dppp = 1,3-bis(diphenylphosphino)propane)

Novel square-planar compounds  $[\text{M}(\text{N}-\text{C}_5\text{H}_4\text{C}\equiv\text{CH})_2(\text{dppp})](\text{OTf})_2$  ( $\text{M} = \text{Pd}, \text{Pt}$ ),  $[\text{Pt}(\text{C}\equiv\text{CC}_6\text{H}_4\text{CN})_2(\text{dppp})]$  and  $[\text{Pt}(\text{C}_6\text{H}_4\text{C}\equiv\text{CC}_5\text{H}_4\text{N})_2(\text{dppp})]$  (dppp = 1,3-bis(diphenylphosphino)propane) were prepared and characterised. The reaction of the latter compound, whose X-ray structure shows that the  $\text{Pt}\cdots\text{N}$  vectors are nearly perpendicular, and the ditopic acceptor species  $[\text{Pd}(\text{H}_2\text{O})_2(\text{dppf})](\text{OTf})_2$ , enabled the obtention of a tetrametallic metallocycle containing two platinum and two palladium atoms.

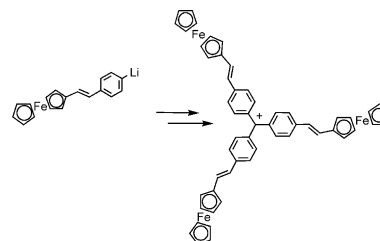


Cécile Arbez-Gindre, Barry R. Steele,  
George A. Heropoulos,  
Constantinos G. Screttas,  
Jean-Edouard Communal, Werner J. Blau,  
Isabelle Ledoux-Rak

*J. Organomet. Chem.* 690 (2005) 1620

A facile organolithium route to ferrocene-based triarylmethyl dyes with substantial near IR and NLO properties

4-Lithiostilbene derivatives are useful starting materials for the preparation of near infrared dyes and organic non-linear optical materials.

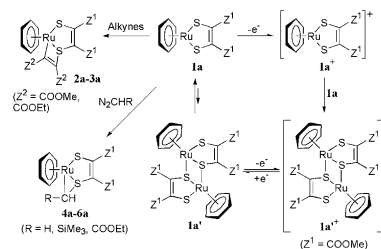


Mitsushiro Nomura, Mari Fujii,  
Katsura Fukuda, Toru Sugiyama,  
Yasuo Yokoyama, Masatsugu Kajitani

*J. Organomet. Chem.* 690 (2005) 1627

Reactivity and electrochemical behavior of ruthenium dithiolene complexes with coordinatively unsaturated metal centers: cycloaddition and dimerization reactions

The ruthenium dithiolene complex  $[(\text{C}_6\text{H}_6)\text{Ru}\{\text{S}_2\text{C}_2(\text{COOMe})_2\}]$  (**1a**) coexisted with the corresponding dimer  $[(\text{C}_6\text{H}_6)\text{Ru}\{\text{S}_2\text{C}_2(\text{COOMe})_2\}]_2$  (**1a'**) in solution, and complex **1a** reacted with acetylenes or diazo compounds to give the alkene-bridged adducts  $[(\text{C}_6\text{H}_6)\text{Ru}\{\text{S}_2\text{C}_2(\text{COOMe})_2\}\{\text{C}_2(\text{COOR})_2\}]$  ( $\text{R} = \text{Me}$  (**2a**),  $\text{Et}$  (**3a**)) or the alkylidene-bridged adducts  $[(\text{C}_6\text{H}_6)\text{Ru}\{\text{S}_2\text{C}_2(\text{COOMe})_2\}(\text{CHR})]$  ( $\text{R} = \text{H}$  (**4a**),  $\text{SiMe}_3$  (**5a**),  $\text{COOEt}$  (**6a**)). The oxidant of complex **1a** was immediately converted to the corresponding cationic dimer **1a''**, and the neutral complex **1a** was regenerated when it was re-reduced.

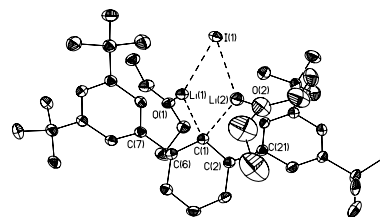


Shirley Hino, Marilyn M. Olmstead,  
James C. Fetting, Philip P. Power

*J. Organomet. Chem.* 690 (2005) 1638

Synthesis and structure of two lithium terphenyls and a "halide rich" terphenyl lithium species

The syntheses and characterization of two new terphenyl ligands are described. The structures of their lithium salts, one of which is a rare example of a "halide rich" lithium aryl, and the structure of the previously known lithium terphenyl  $[\text{Li}(\text{C}_6\text{H}_3-2,6-(\text{C}_6\text{H}_3-2,6-\text{Me}_2)_2)_2]$ , were determined.





Sofia I. Pascu, Karl S. Coleman,  
Andrew R. Cowley, Malcolm L.H. Green,  
Nicholas H. Rees

*J. Organomet. Chem.* 690 (2005) 1645

New cationic palladium (II) and rhodium (I) complexes of  $[\text{Ph}_2\text{PCH}_2\text{C}(\text{Ph})=\text{N}(2,6\text{-Me}_2\text{-C}_6\text{H}_3)]$

Treatment of the bulky iminophosphine ligand  $[\text{Ph}_2\text{PCH}_2\text{C}(\text{Ph})=\text{N}(2,6\text{-Me}_2\text{C}_6\text{H}_3)]$  (L) with  $[\text{M}(\text{CH}_3\text{CN})_2(\text{ligand})]$  yields new monocationic iminophosphine complexes such as  $[\text{Pd}(\eta^3\text{-allyl})(\text{L})][\text{BF}_4]$  (1),  $[\text{Rh}(\text{cod})(\text{L})][\text{BF}_4]$  (2),  $[\text{Rh}(\text{CO})(\text{CH}_3\text{CN})(\text{L})][\text{BF}_4]$  (3), and *cis*- $[\text{Rh}(\text{L})_2][\text{BF}_4]$  (4).

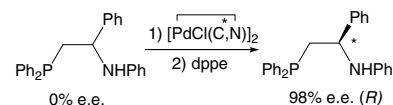


Jean-Michel Camus, Patricia Roy García,  
Jacques Andrieu, Philippe Richard,  
Rinaldo Poli

*J. Organomet. Chem.* 690 (2005) 1659

Resolution of  $\beta$ -aminophosphines with chiral cyclopalladated complexes

A chiral  $\beta$ -aminophosphine has been isolated by resolving its racemic mixture with a palladacycle complex chiral agent. Its absolute configuration has been determined from the X-ray structure analysis of the related palladium dichloride complex.

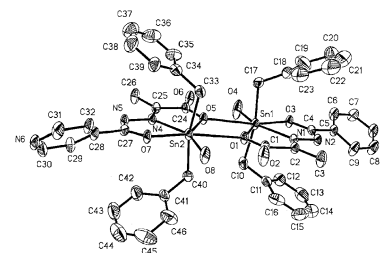


Han Dong Yin, Min Hong, Qi Bao Wang,  
Sheng Cai Xue, Da Qi Wang

*J. Organomet. Chem.* 690 (2005) 1669

Synthesis and structural characterization of diorganotin(IV) esters with pyruvic acid isonicotinyl hydrazone and pyruvic acid salicylhydrazone Schiff bases

Eight diorganotin esters of Schiff base ligand formulated as  $[\text{R}_2\text{SnLY}]_2$ , where  $\text{L}_1$  is  $4\text{-NC}_5\text{H}_4\text{-C}(\text{O})\text{N}_2\text{C}(\text{CH}_3)\text{CO}_2$  with  $\text{Y} = \text{H}_2\text{O}$ ,  $\text{R} = \text{Ph}$  (1),  $\text{PhCH}_2$  (2), *m*-Cl- $\text{PhCH}_2$  (3), and  $\text{L}_2$  is  $2\text{-HOC}_6\text{H}_4\text{-C}(\text{O})\text{N}_2\text{C}(\text{CH}_3)\text{CO}_2$  with  $\text{Y} = \text{CH}_3\text{OH}$ ,  $\text{R} = \text{PhCH}_2$  (4), *o*-Cl- $\text{PhCH}_2$  (5), *m*-Cl- $\text{PhCH}_2$  (6), *o*-F- $\text{PhCH}_2$  (7), *p*-F- $\text{PhCH}_2$  (8) have been prepared and characterized by elemental analysis, IR,  $^1\text{H}$  and  $^{119}\text{Sn}$  NMR spectra. The crystal structures of compounds 1, 2 and 4 have been determined by X-ray single crystal diffraction.



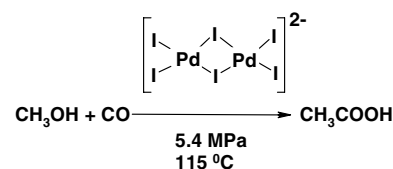
## Notes

Sunil S. Tonde, Ashutosh A. Kelkar,  
Mohan M. Bhadbhade,  
Raghunath V. Chaudhari

*J. Organomet. Chem.* 690 (2005) 1677

Isolation and characterization of an iodide bridged dimeric palladium complex in carbonylation of methanol

Iodide bridged palladium dimeric complex,  $[\text{PPh}_3\text{CH}_3]_2[\text{Pd}_2\text{I}_6]$  was isolated from the reaction mixtures of carbonylation of methanol using  $\text{Pd}(\text{OAc})_2\text{-HI-PPh}_3$  catalyst system and characterized using NMR and X-ray crystallography. Reaction mechanism was proposed based on UV and IR spectroscopic characterizations.



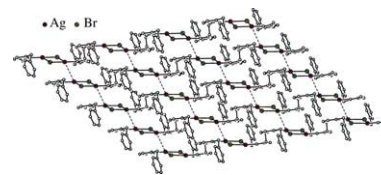


Pei Ling Chiu, Chih Yuan Chen,  
Jing Yao Zeng, Chi Ying Lu, Hon Man Lee

*J. Organomet. Chem.* 690 (2005) 1682

Coordination polymers of silver(I) with bis(*N*-heterocyclic carbene): Structural characterization and carbene transfer

Reactions of ethylene- and methylene-bridged bis(imidazolium) salts with Ag<sub>2</sub>O produced readily the silver NHC coordination polymers, [Ag<sub>2</sub>LBr<sub>2</sub>]. Structural analysis on **3d** (L = 1,1'-dibenzyl-3,3'-ethylenediimidazolin-2,2'-diylidene) reveals the formation of bromide bridged (Ag<sub>2</sub>LBr<sub>2</sub>)<sub>n</sub> chains and an intriguing supramolecular motif with weak Ag...Ag interactions of 3.429 Å. The coordination polymers are effective carbene transfer reagents.



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