

Contents

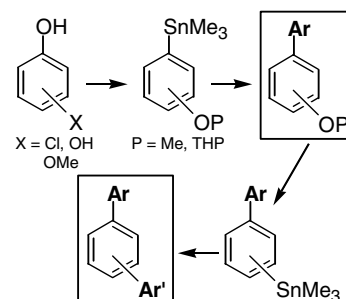
Regular papers

**Alicia B. Chopa, Gustavo F. Silbestri,
María T. Lockhart**

J. Organomet. Chem. 690 (2005) 3865

Strategies for the synthesis of bi- and triarylic materials starting from commercially available phenols

The photostimulated reaction of Me_3SnNa with aryl substrates supporting different nucleofugal groups yielded the corresponding arylstannanes (74–99%) which, through Stille cross-coupling reactions, led to asymmetric bi- and triaryls in acceptable global yields. Commercially available benzenediols, chloro- and methoxy phenols might be useful starting substrates.

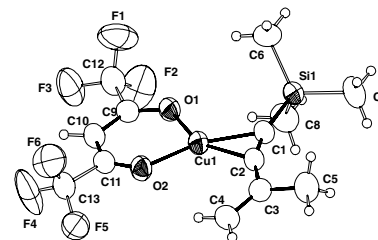


**Y. Shen, T. Rüffer, S.E. Schulz, T. Gessner,
L. Wittenbecher, H.-J. Sterzel, H. Lang**

J. Organomet. Chem. 690 (2005) 3878

$\text{Me}_3\text{SiC}\equiv\text{C}-\text{CMe}=\text{CH}_2$ copper(I) β -diketonates: Synthesis, solid state structure, and low-temperature chemical vapour deposition

The synthesis of diverse ene-yne copper(I) β -diketonates (β -diketonate = acac, dbac, hfac) is described. Preliminary studies of one sample as CVD precursor in the deposition of copper onto TiN-coated oxidised silicon wafers is reported as well.



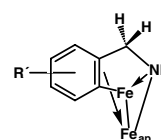
**W. Imhof, A. Göbel, L. Schweda,
D. Dönnecke, K. Halbauer**

J. Organomet. Chem. 690 (2005) 3886

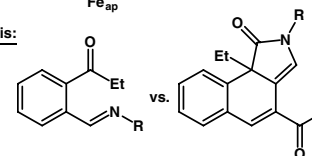
The variation of coordination modes of aromatic imines in iron carbonyl complexes: Is there a correlation between bond lengths in organometallic model compounds and the reactivity of the ligands in catalytic C–C bond formation reactions?

The molecular structures of 43 different dinuclear iron carbonyl complexes derived from aromatic imine ligands are compared. The longer the iron carbon bond length $\text{Fe}_{\text{ap}}-\text{C}_{\beta}$ gets, the shorter is the iron iron bond. If the same ligands are used as the substrates in catalytic C–C bond formation reactions with CO and/or ethylene, only those with the longest $\text{Fe}_{\text{ap}}-\text{C}_{\beta}$ bonds produce heterocyclic compounds whereas the other imines react via the formal acylation of the aromatic system in *ortho*-position with respect to the exocyclic imine substituent.

Model compounds:



Catalysis:

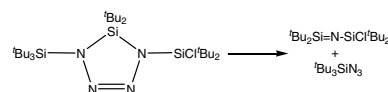


**Hans-Wolfram Lerner, Nils Wiberg,
Jan W. Bats**

J. Organomet. Chem. 690 (2005) 3898

Das chlorsilylsubstituierte Silanimin ${}^t\text{Bu}_2\text{Si}=\text{NSiCl}{}^t\text{Bu}_2$

Das Silanimin ${}^t\text{Bu}_2\text{Si}=\text{NSiCl}{}^t\text{Bu}_2$ lässt sich durch Thermolyse des 1-Tri-*tert*-butylsilyl-4-(di-*tert*-butyl-chlorsilyl)-5,5-di-*tert*-butylsilatetrazolins bei RT nahezu quantitativ gewinnen.

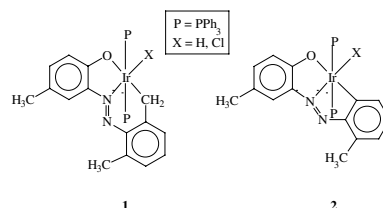


**Rama Acharyya, Falguni Basuli,
Shie-Ming Peng, Gene-Hsiang Lee,
Ren-Zhang Wang, Thomas C.W. Mak,
Samaresh Bhattacharya**

J. Organomet. Chem. 690 (2005) 3908

Iridium mediated methyl and phenyl C–H activation of 2-(aryloxy)phenols. Synthesis, structure, and spectral and electrochemical properties of some organoiridium complexes

2-(2',6'-Dimethylphenylazo)-4-methylphenol undergoes C–H activation of a methyl group in the arylazo fragment upon its reaction with $[\text{Ir}(\text{PPh}_3)_3\text{Cl}]$ and affords an organoiridium complex **1**, where the above ligand is coordinated as a tridentate C,N,O-donor. Similar reaction of 2-(2'-methylphenylazo)-4-methylphenol affords complex **2** via phenyl C–H activation.

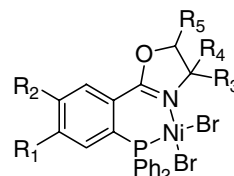


**Xiubo Tang, Dongheng Zhang,
Suyun Jie, Wen-Hua Sun, Jiutong Chen**

J. Organomet. Chem. 690 (2005) 3918

Nickel(II) complexes bearing phosphino-oxazoline ligands: Synthesis, structures and their ethylene oligomerization behaviors

A series of Ni(II) complexes **4a–f** based on the unsymmetrical phosphino-oxazoline (PHOX) ligands were synthesized and characterized by elemental analysis, IR spectroscopy and the structures of complexes **4c–4e** were confirmed by the X-ray crystallographic analysis. Upon activation with methylaluminoxane (MAO) or Et_2AlCl , these complexes displayed considerable to high activity of ethylene oligomerization. The catalytic activity was found to be remarkably affected by the ligands and reaction conditions, while incorporation of 2–4 equivalents of PPh_3 as auxiliary ligands, the **4a–f**/MAO catalytic systems led to much higher activity and longer catalytic lifetime.

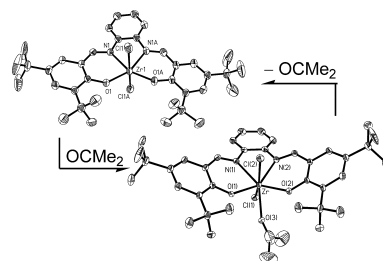


**Hongjun Zhu, Mei Wang, Chengbing Ma,
Bo Li, Changneng Chen, Licheng Sun**

J. Organomet. Chem. 690 (2005) 3929

Preparation and structures of 6- and 7-coordinate salen-type zirconium complexes and their catalytic properties for oligomerization of ethylene

Crystallographic studies reveal that the salen-type Zr complex features a labile coordination site on the Zr center. The association and dissociation of O-donor molecules occur readily on this site, which might be ligated by a monomer in ethylene oligomerization catalyzed by salen-type Zr complexes.

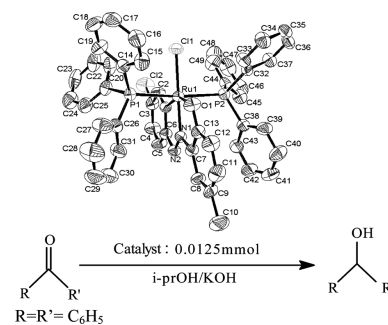


G. Venkatachalam, R. Ramesh, S.M. Mobin

J. Organomet. Chem. 690 (2005) 3937

Synthesis, structure, catalytic transfer hydrogenation and biological activity of cyclometallated ruthenium(III)2-(aryloxy)-phenolate complexes

Ten paramagnetic cyclometallated ruthenium(III) complexes of the type $[\text{RuX}(\text{PPh}_3)_2(\text{L})]$ ($\text{X} = \text{Cl}$ or Br ; $\text{L} = 2$ -(aryloxy)phenolate ligand) have been synthesized and characterized. All the complexes were found to be efficient catalyst in transfer hydrogenation of benzophenone to benzhydrol and the conversion is up to 99.5%. Further, these complexes have shown great promise in inhibiting the growth of Gram +ve (*Staphylococcus aureus* NCIM 2079), Gram -ve (*Escherichia coli*) bacteria and fungus (*Candida albicans* NCIM 3102) species.

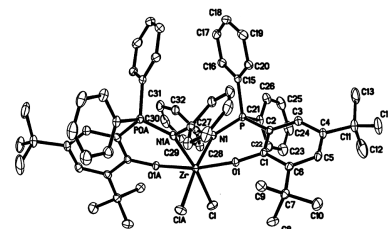


Chang-He Qi, Suo-Bo Zhang, Jing-Hui Sun

J. Organomet. Chem. 690 (2005) 3946

Titanium and zirconium complexes with novel phenoxy-phosphinimine ligands

A series of novel phenoxy-phosphinimine ligands have been prepared in the yield of 65–71%. And bis(phenoxy-phosphinimine) group 4 complexes of the type L_2MCl_2 have been synthesized by the reaction of the ligands with TiCl_4 and ZrCl_4 . The structure of complex **7** has been determined by X-ray crystallography.

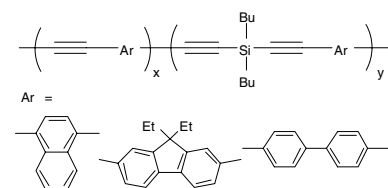


Joji Ohshita, Daisuke Nada, Yosuke Tada, Yosuke Kimura, Hiroto Yoshida, Atsuta Kunai, Yoshihito Kunugi

J. Organomet. Chem. 690 (2005) 3951

Sonogashira coupling of diethynylsilane and dibromoarene in wet solvent for the formation of poly[(ethynylenearylene)-co-(diethynylsilylenearylene)]

Sonogashira coupling of diethynylsilane and dibromoarene in dry triethylamine gave poly(diethynylsilylenearylene)s, while in wet triethylamine, hydrolytic desilylation competed to give poly[(ethynylenearylene)-co-(diethynylsilylenearylene)]s. Performance of EL devices having the resulting polymers as hole-transporting materials was studied.

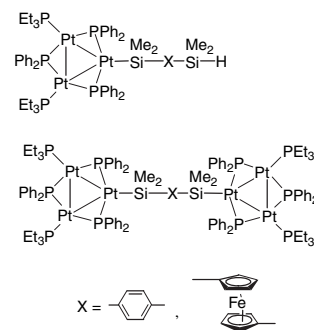


Masumi Itazaki, Osamu Kitami, Makoto Tanabe, Yasushi Nishihara, Kohtaro Osakada

J. Organomet. Chem. 690 (2005) 3957

Hexanuclear Pt complexes composed of two cyclic triplatinum units connected with 1,4-diphenylene and 1,1'-ferrocenylene spacer

1,4-Bis(dimethylsilyl)benzene and 1,1'-bis-(dimethylsilyl)ferrocene reacted with $[\text{Pt}_3\text{H}(\text{PEt}_3)_3(\mu\text{-PPh}_2)_3]$ to afford the trinuclear Pt complexes with a silyl ligand and hexanuclear Pt complexes having the two cyclic Pt_3 units bonded by a spacer.

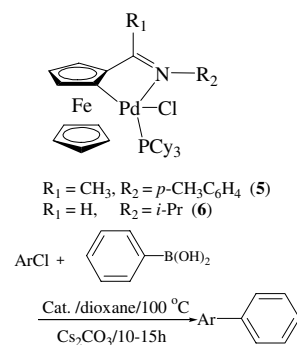


Junfang Gong, Guangyu Liu, Chenxia Du, Yu Zhu, Yangjie Wu

J. Organomet. Chem. 690 (2005) 3963

Efficient Suzuki coupling of aryl chlorides catalyzed by tricyclohexylphosphine adducts of dimeric cyclopalladated ferrocenylimines

The air and moisture stable tricyclohexylphosphine (PCy₃) adducts of dimeric cyclopalladated ferrocenylimines **5** and **6** have been easily synthesized and characterized by ¹H NMR, IR, HRMS and X-ray single crystal analysis. It was found that **5** and **6** were efficient catalysts for the Suzuki coupling of aryl chlorides with phenylboronic acid.

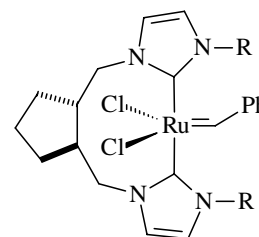


Colin Marshall, Mark F. Ward, William T.A. Harrison

J. Organomet. Chem. 690 (2005) 3970

Synthesis of chiral chelating *N*-heterocyclic carbene complexes of ruthenium

The first 9-membered chiral chelating bidentate imidazol-2-ylidene ruthenium (II) benzylidene complexes based on a cyclopentane backbone were synthesised by elaboration of a chiral cyclopentane dibromide to the bisimidazolium salt and then bisimidazolium-2-thione. Reduction of the thione functionality gave access to the bis(imidazol-2-ylidene), which when reacted with Grubbs catalyst affords the air stable chiral chelating bidentate NHC ruthenium benzylidene complexes.

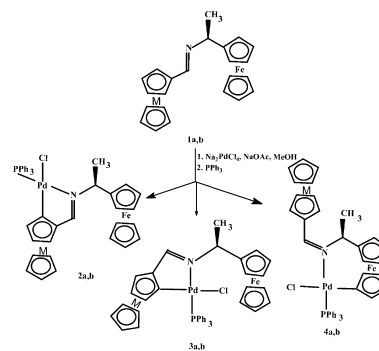


Ludmila L. Troitskaya, Zoya A. Starikova, Tatiana V. Demeshchik, Svetlana T. Ovseenko, Evgenii V. Vorontsov, Viatcheslav I. Sokolov

J. Organomet. Chem. 690 (2005) 3976

Abnormal cyclopalladation of Schiff bases made of metallocenyl aldehydes and α -ferrocenylethylamine: Unexpected formation of the heteroannular 3-atomic bridge

Cyclopalladation of the Schiff bases of general formula McCH=N-CH(Me)Fc (Mc=Fc, Ru) with a chiral centre leads to the mixtures of three products, two of which (**2** and **3**) are planar chiral diastereomers formed from homoannular substitution into the aldehyde fragment. The third product **4** is a result of the unusual heteroannular palladation of the amine fragment in starting aldimine. This *ansa*-structure **4** having 3-atomic C-N-Pd bridge is without precedent in metallocenes.

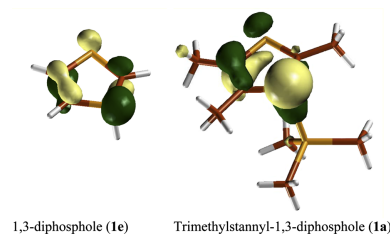


F. Geoffrey, N. Cloke, Peter B. Hitchcock, John F. Nixon, D. James Wilson, László Nyulászi, Tamás Kárpáti

J. Organomet. Chem. 690 (2005) 3983

1-Triphenylstannyl-2,4,5-tritertiarybutyl-1,3-diphosphole, Ph₃SnP₂C₃Bu₃: Preparation, X-ray crystal structure, theoretical studies and solution fluxional behaviour

The preparation and theoretical discussion of the first stanna-1,3-diphosphole is described.

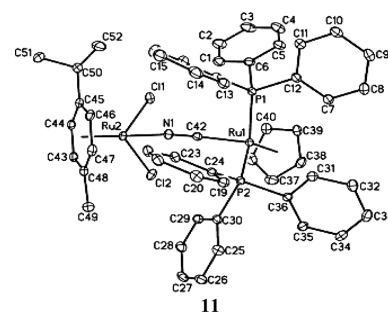


**R. Lalrempuia, Mohan Rao Kollipara,
Patrick J. Carroll, Glenn P.A. Yap,
K.A. Kreisel**

J. Organomet. Chem. 690 (2005) 3990

Syntheses and characterization of cyano-bridged homo and hetero bimetallic complexes containing η^5 and η^6 -cyclic hydrocarbons

A number of cyano-bridged homo- and hetero-cyclic bimetallic complexes have been synthesized having cyclopentadienyl and indenyl ligands coordinated on to arene ruthenium and arene osmium systems. Some representative complexes are characterized by single crystal X-ray studies.

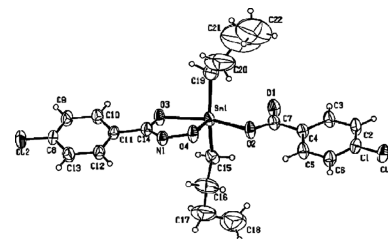


Xianmei Shang, Qingshan Li, Jizhou Wu

J. Organomet. Chem. 690 (2005) 3997

Synthesis and crystal structure of a mixed-ligand compound di-*n*-butyl(4-chlorobenzoyl)(4-chlorobenzohydroxamato)tin(IV)

The di-*n*-butyl(4-chlorobenzoyl)(4-chlorobenzohydroxamato)tin(IV) has been synthesized and characterized by elemental analysis, IR and ^1H , ^{13}C , ^{119}Sn NMR. The crystal structure has been determined by X-ray single-crystal diffraction. The compound crystallizes as the five-coordinate mixed-ligand dibutyltin(IV) complex containing both monodentate and bidentate ligands. The tin atom adopts distorted trigonal bipyramidal geometry with the Bu groups trans to each other.

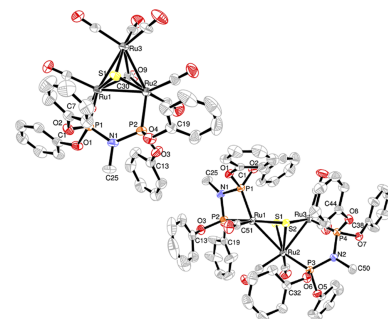


**Thengarai S. Venkatakrishnan,
Setharampattu S. Krishnamurthy,
Munirathinam Nethaji**

J. Organomet. Chem. 690 (2005) 4001

Chalcogen-capped ruthenium carbonyl clusters derived from diphosphazane mono- and dichalcogenides of the type $\text{X}_2\text{P}(\text{E})\text{N}(\text{R})\text{P}(\text{E})\text{X}_2$ and $\text{X}_2\text{P}(\text{E})\text{N}(\text{R})\text{P}(\text{E})\text{X}_2$ (E = S or Se)

Reactions of $\text{Ru}_3(\text{CO})_{12}$ with diphosphazane mono- and dichalcogenides of the type $\text{X}_2\text{PN}(\text{R})\text{P}(\text{E})\text{X}_2$ and $\text{X}_2\text{P}(\text{E})\text{N}(\text{R})\text{P}(\text{E})\text{X}_2$ yield a range of chalcogen-capped tri- and tetra-ruthenium carbonyl clusters. The tri-ruthenium sulfur bicapped cluster, $[\text{Ru}_3(\mu_3\text{-S})_2(\text{CO})_5\{\kappa^2\text{-P,P}(\text{PhO})_2\text{PN}(\text{Me})\text{P}(\text{OPh})_2\}\{\mu\text{-P,P}(\text{PhO})_2\text{PN}(\text{Me})\text{P}(\text{OPh})_2\}]$, bearing both a bridging and a chelating diphosphazane ligand shows an interesting dynamic behavior in solution.

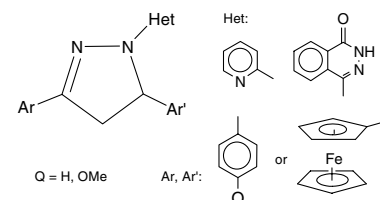


**Veronika Kudar, Virág Zsoldos-Mády,
Kálmán Simon, Antal Csámpai, Pál Sohár**

J. Organomet. Chem. 690 (2005) 4018

Synthesis, IR-, NMR- and X-ray investigations on some novel *N*-hetaryl-dihydropyrazolyl ferrocenes. Study on ferrocenes, part 16

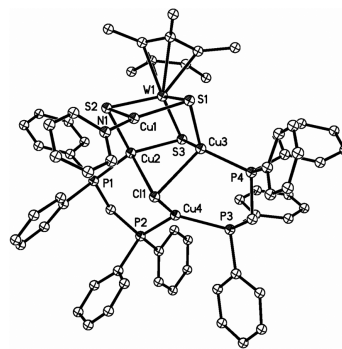
Starting from the corresponding enones and hetaryl-hydrazines a serie of novel ferrocenyl-substituted pyrazolines was prepared and characterized in solution and solid state.



Hong Yu ,Wen-Hua Zhang, Zhi-Gang Ren, Jin-Xiang Chen, Chun-Lan Wang, Jian-Ping Lang, Hendry Izaac Elim, Wei Ji
J. Organomet. Chem. 690 (2005) 4027

Formation of new organometallic W/Cu/S clusters from reactions of $[(\eta^5\text{-C}_5\text{Me}_5)\text{-WS}_3\text{Cu}_7(\text{MeCN})_9](\text{PF}_6)_4$ with donor ligands. Crystal structures and optical limiting properties of $[(\eta^5\text{-C}_5\text{Me}_5)\text{WS}_3\text{Cu}_3(\text{Py})_6](\text{PF}_6)_2$, $[(\eta^5\text{-C}_5\text{Me}_5)\text{WS}_3\text{Cu}_3\text{Br}(\text{PPh}_3)_3](\text{PF}_6)_2$, and $[(\eta^5\text{-C}_5\text{Me}_5)\text{WS}_3\text{Cu}_4(\text{Py})\text{Cl}(\text{dp-pm})_2](\text{PF}_6)_2$

Three new W/Cu/S clusters $[(\eta^5\text{-C}_5\text{Me}_5)\text{-WS}_3\text{Cu}_3(\text{Py})_6](\text{PF}_6)_2$, $[(\eta^5\text{-C}_5\text{Me}_5)\text{WS}_3\text{Cu}_3\text{Br}(\text{PPh}_3)_3](\text{PF}_6)_2$, and $[(\eta^5\text{-C}_5\text{Me}_5)\text{WS}_3\text{Cu}_4(\text{Py})\text{Cl}(\text{dppm})_2](\text{PF}_6)_2$ were prepared from reactions of $[(\eta^5\text{-C}_5\text{Me}_5)\text{WS}_3\text{Cu}_7(\text{MeCN})_9](\text{PF}_6)_4$ with pyridine, PPh_3 and dppm . The structures of the three compounds were characterized by X-ray crystallography and their optical limiting properties in solution were studied.

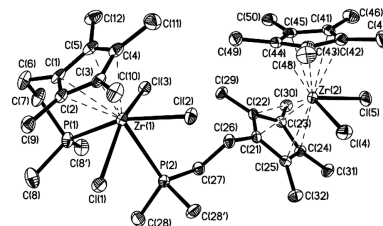


Dmitrii P. Krut'ko, Maxim V. Borzov, Edward N. Veksler, Andrei V. Churakov, Lyudmila G. Kuz'mina

J. Organomet. Chem. 690 (2005) 4036

Mono- and bis-[2-(*P,P*-dimethylphosphanyl)ethyl] tetramethylcyclopentadienyl zirconium (IV) complexes: Synthesis and structural studies in crystalline state and in solutions

Synthetic routes for a new ligand $\text{C}_5\text{Me}_4\text{CH}_2\text{CH}_2\text{PMe}_2$ (**2b**) in forms of its Li- (**2b-Li**), Na- (**2b-Na**) salts and in the CH-form (**2b-H**), as well as for silanes $\text{Me}_3\text{SiC}_5\text{H}_4\text{CH}_2\text{CH}_2\text{PMe}_2$ (**3a**) and $\text{Me}_3\text{SiC}_5\text{Me}_4\text{CH}_2\text{CH}_2\text{PMe}_2$ (**3b**) have been developed. On the basis of it, new half-sandwich $[\eta^5\text{-}\eta^1\text{-}\kappa\text{P-C}_5\text{H}_4\text{CH}_2\text{CH}_2\text{PMe}_2]\text{ZrCl}_3$ (**4a**), $[\eta^5\text{-}\eta^1\text{-}\kappa\text{P-C}_5\text{Me}_4\text{CH}_2\text{CH}_2\text{PMe}_2]\text{ZrCl}_3$ (**4b**) and sandwich $[\eta^5\text{-C}_5\text{Me}_4\text{CH}_2\text{CH}_2\text{PMe}_2]_2\text{-ZrCl}_2$ (**5**), $[\eta^5\text{-C}_5\text{Me}_4\text{CH}_2\text{CH}_2\text{PMe}_2][\eta^5\text{-C}_5\text{Me}_5]\text{ZrCl}_3$ (**6**) complexes of Zr(IV) have been prepared and characterized.

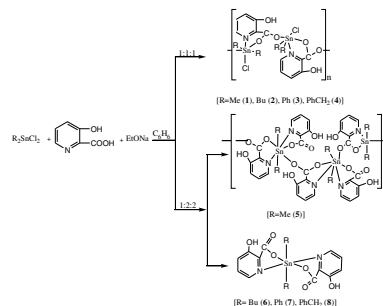


Rufen Zhang, Guangru Tian, Chunlin Ma

J. Organomet. Chem. 690 (2005) 4049

Syntheses and crystal structures of diorganotin (IV) moieties with 3-hydroxy-2-pyridinecarboxylic acid

A series of new organotin (IV) complexes with 3-hydroxy-2-pyridinecarboxylic acid (3-OH-2-picH) of two types: $\text{R}_2\text{SnCl}(3\text{-OH-2-pic})$ (**I**) ($\text{R} = \text{Me}$ **1**, *n*-Bu **2**, Ph **3**, PhCH_2 **4**) and $\text{R}_2\text{Sn}(3\text{-OH-2-pic})_2$ (**II**) ($\text{R} = \text{Me}$ **5**, *n*-Bu **6**, Ph **7**, PhCH_2 **8**) have been synthesized. Complex **1** is a 1D polymeric chain with six-coordinate tin atoms and the packing of complex **1** is stabilized by the C-H...Cl intermolecular weak interactions, thus a 2D network of **1** is formed. Complex **5** is also a 1D polymeric chain with seven-coordinate tin atoms. Complex **6** is a zigzag polymeric chain linked by Sn...O intermolecular weak interactions. Complex **7** is a monomeric complex with distorted octahedral geometry.

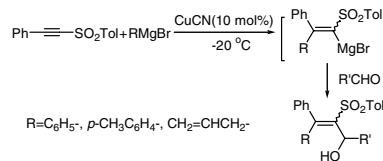


Meihua Xie, Li Liu, Jialiang Wang, Shaowu Wang

J. Organomet. Chem. 690 (2005) 4058

Stereoselective synthesis of vinyl sulfones by carbomagnesiation of acetylenic sulfone in the presence of CuCN

Carbomagnesiation of acetylenic sulfone in the presence of catalytic amount of CuCN gave α -sulfonyl vinyl magnesium reagents, which further reacted with aldehydes to afford polysubstituted vinyl sulfones in moderate to good yields with good stereoselectivity.

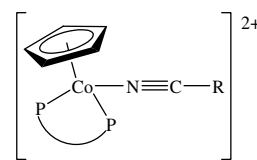


**M. Helena Garcia, Paulo J. Mendes,
A. Romão Dias**

J. Organomet. Chem. 690 (2005) 4063

Synthesis and electrochemical studies of organometallic cobalt(III) complexes with substituted benzonitrile chromophores: NMR spectroscopic data as a probe on the second-order non-linear optical properties

A family of η^5 -cyclopentadienylcobalt complexes with *p*-substituted benzonitrile chromophores was prepared, characterized and studied by cyclic voltammetry. A correlation between NMR spectroscopic data and the second-order non-linear optical properties is presented, based on this work and on available published data for related complexes.



P-P= dppe; R= C₆H₄NMe₂, C₆H₄NH₂, C₆H₄OMe, C₆H₄C₆H₅, C₆H₅, C₆H₄C₆H₄NO₂, C₆H₄NO₂

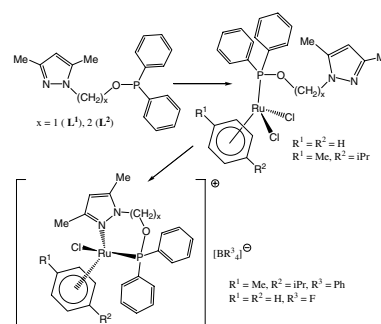
**Rosa Tribó, Sergi Muñoz, Josefina Pons,
Ramón Yáñez, Ángel Álvarez-Larena,
Joan Francesc Piniella, Josep Ros**

J. Organomet. Chem. 690 (2005) 4072

Synthesis and characterisation of new pyrazole-phosphinite ligands and their ruthenium(II) arene complexes

New potentially bidentate pyrazole-phosphinite ligands [(3,5-dimethyl-1*H*-pyrazol-1-yl)methyl diphenylphosphinite] (**L**¹) and [2-(3,5-dimethyl-1*H*-pyrazol-1-yl)ethyl diphenylphosphinite]

(**L**²) were synthesised and characterised. The reaction of [Ru(η^6 -arene)Cl₂]₂ (arene = *p*-cymene, benzene) with **L**¹ and **L**² led to the formation of neutral complexes [Ru(η^6 -arene)Cl₂(L)] (L = **L**¹, **L**²). The subsequent reaction with NaBPh₄ and NaBF₄ produced the [Ru(η^6 -*p*-cymene)Cl(L²)](BPh₄) and [Ru(η^6 -benzene)Cl(L²)](BF₄) compounds which contained the pyrazole-phosphinite ligand κ^2 -*P,N* bonded to ruthenium. The crystal structure of compound [Ru(η^6 -*p*-cymene)Cl(L²)](BPh₄) was reported. Some preliminary catalytic tests involving the transfer hydrogenation of cyclohexanone were also described.

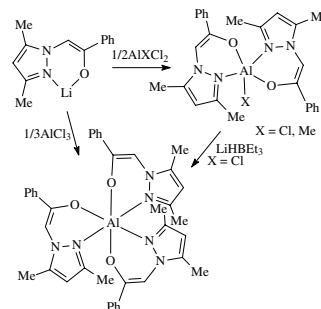


Zhong-Xia Wang, Die Yang

J. Organomet. Chem. 690 (2005) 4080

Synthesis and characterization of aluminum complexes of 2-pyrazol-1-yl-ethenolate ligands

Reaction of 2-(3,5-disubstituted pyrazol-1-yl)-1-phenylethanones with AlR₃ (R = Me, Et) affords four-coordinated *N,O*-chelate aluminum complexes. Lithiated 2-(3,5-dimethylpyrazol-1-yl)-1-phenylethanone reacts with MeAlCl₂ or AlCl₃ to give five- or six-coordinated *N,O*-chelate aluminum complexes.

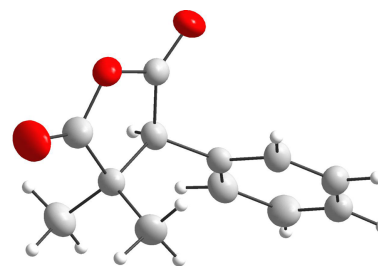


**Henri Rudler, Andrée Parlier,
Cecilio Alvarez, J. Vaissermann**

J. Organomet. Chem. 690 (2005) 4087

Bis(trimethylsilyl)ketene acetals as 1,3-dinucleophiles. Formation of an anhydride from (pentacarbonyl)(phenylethoxy) tungstacarbene

A new application of the ketene acetal Me₂C=C(OSiMe₃)₂ as a potential 1,3 C,O-dinucleophile: formation of an anhydride upon its interaction with (CO)₅W=C(Ph)OEt.



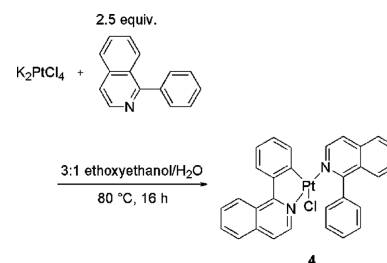
Notes

Jian-Yang Cho, Kyrill Yu. Suponitsky,
Jennifer Li, Tatiana V. Timofeeva,
Stephen Barlow, Seth R. Marder

J. Organomet. Chem. 690 (2005) 4090

Cyclometalated platinum complexes: High-yield synthesis, characterization, and a crystal structure

The one-pot reaction of K_2PtCl_4 and various 2-arylpyridines, $HC^{\wedge}N$, in a 3:1 (v/v) mixture of 2-ethoxyethanol and H_2O at $80\text{ }^{\circ}C$ for 16 h affords cyclometalated platinum complexes, $Pt(C^{\wedge}N)(HC^{\wedge}N)(Cl)$, in high yield. These have been fully characterized and, in one case, the X-ray structure has been determined.

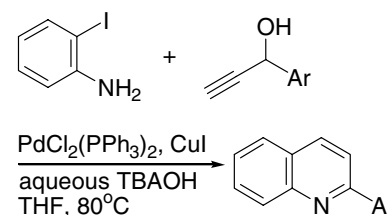


Chan Sik Cho

J. Organomet. Chem. 690 (2005) 4094

Palladium-catalyzed Sonogashira coupling reaction followed by isomerization and cyclization

2-Iodoaniline undergoes tandem Sonogashira coupling, isomerization and cyclodehydration with terminal acetylenic carbinols in the presence of $PdCl_2(PPh_3)_2$ and CuI along with aqueous tetrabutylammonium hydroxide in THF to afford 2-arylquinolines in good yields. The present reaction is a convenient one-pot synthetic route for 2-arylquinolines from 2-iodoaniline and terminal acetylenic carbinols.



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