

Contents

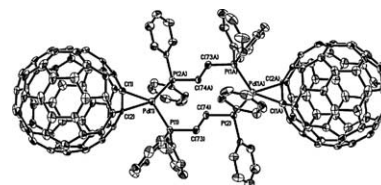
Communication

Li-Cheng Song, Fu-Hai Su, Qing-Mei Hu

J. Organomet. Chem. 690 (2005) 1121

Three novel bimetallic cyclopropa[60] fullerene complexes formed via intermediate monometallic cyclopropa[60] fullerene diphosphine ligands

The homo- and hetero-dinuclear bimetallic cyclopropa[60] fullerene complexes (η^2 -C₆₀)-M(μ - η^1, η^1 -*trans*-Ph₂PCH=CHPPh₂)₂M(η^2 -C₆₀) (1, M = Pt; 2, M = Pd) and (η^2 -C₆₀)Pd(μ - η^1, η^1 -*trans*-Ph₂PCH=CHPPh₂)₂Pt(η^2 -C₆₀) (3) were prepared via the intermediate metal cyclopropa[60] fullerene diphosphines (η^2 -C₆₀)M(η^1 -*trans*-Ph₂PCH=CHPPh₂)₂ (4, M = Pt; 5, M = Pd). Complexes 1–5 have been fully characterized.



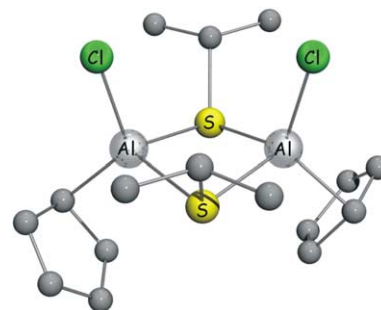
Regular papers

Sawomir Szumacher, Izabela Madura, Janusz Zachara, Antoni Ryszard Kunicki

J. Organomet. Chem. 690 (2005) 1125

Cyclopentadienylaluminum thiolates – synthesis and structure

The dicyclopentadienylaluminum thiolates [Cp₂Al(μ -SR)]₂, where R = Et (1), *i*Pr (2), were obtained by reacting Cl₂AlSR with CpNa at the molar ratio 1:2, respectively. Use of CpLi leads to the formation of cyclopentadienyl-(chloro)aluminum thiolates [Cp(Cl)Al(μ -SR)]₂, exclusively, where R = Et (3), *i*Pr (4), *t*Bu (5), and *n*Bu (6). The compounds were structurally characterized by multinuclear NMR and X-ray crystallography. The influence of steric and electronic factors on molecular structure, particularly on Cp–Al bond mode is discussed.

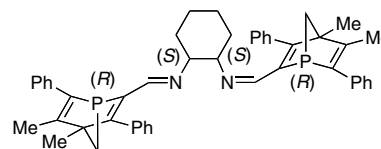


Alexandre Germoni, Bernard Deschamps, Louis Ricard, François Mercier, François Mathey

J. Organomet. Chem. 690 (2005) 1133

The coordination chemistry of enantiopure diimines derived from 1-phosphanorbornadiene-2-carboxaldehydes

Kinetic resolution and complexes with Rh(I), Pd(II), and Ru(II).

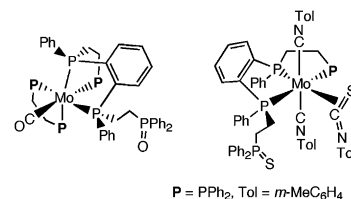


**Takeshi Ohnishi, Hidetake Seino,
Masanobu Hidai, Yasushi Mizobe**

J. Organomet. Chem. 690 (2005) 1140

The C=O and C=S bond cleavage in carbon dioxide and tolyl isothiocyanate by reactions with the Mo(0) tetraphosphine complex [Mo(*meso*-*o*-C₆H₄(PPhCH₂CH₂PPh₂)₂)(Ph₂-PCH₂CH₂PPh₂)]

A Mo(0) complex [Mo(P₄)(dppe)] (P₄=*meso*-*o*-C₆H₄(PPhCH₂CH₂PPh₂)₂, dppe=Ph₂-P-CH₂CH₂PPh₂) reacted with CO₂ and TolNCS (Tol = *m*-MeC₆H₄) to give the Mo(0) complexes *fac*-[Mo(CO)(η³-P₄=O)-(dppe)] and *trans,mer*-[Mo(TolNC)₂(η²-TolNCS)(η³-P₄=S)].

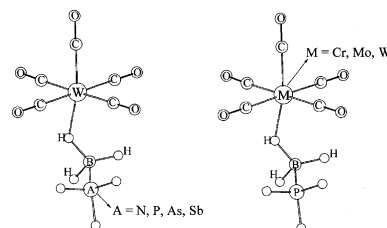


**Alireza Ariafard, Mostafa M. Amini,
Amirreza Azadmehr**

J. Organomet. Chem. 690 (2005) 1147

Density functional theory study on structural isomers and bonding of model complexes M(CO)₅(BH₃ · PH₃) (M = Cr, Mo, W) and W(CO)₅(BH₃ · AH₃) (A = N, P, As, Sb)

The influence of group 15 various substituents and effect of metal centers on metal–borane interactions and structural isomers of transition metal–borane complexes W(CO)₅(BH₃ · AH₃) and M(CO)₅(BH₃ · PH₃) (A = N, P, As, and Sb; M = Cr, Mo, and W), were investigated by pure density functional theory at BP86 level.

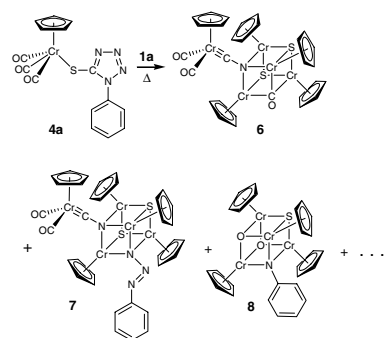


**Victor Wee Lin Ng, Zhiqiang Weng,
Jagadees J. Vittal, Lip Lin Koh,
Geok Kheng Tan, Lai Yoong Goh**

J. Organomet. Chem. 690 (2005) 1157

CpCr(CO)₃⁺-initiated N–N bond cleavage in a thiotetrazole ligand in a cyclopentadienylchromium complex

The CpCr(CO)₃⁺ (**1a**)-initiated cleavage of the STz ligand in CpCr(CO)₃(STz) (**4a**) under thermal conditions yielded a mixture of cubane-like compounds, from which were isolated the new complexes **6–8**.

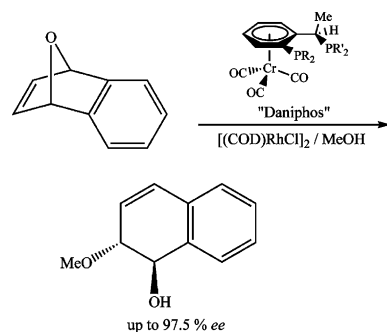


**Wolfgang Braun, Wolfgang Müller,
Beatrice Calmuschi, Albrecht Salzer**

J. Organomet. Chem. 690 (2005) 1166

Highly enantioselective catalytic asymmetric ring opening reaction employing the Daniphos ligand

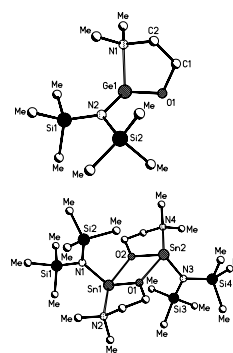
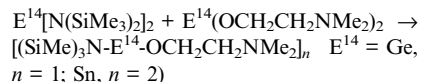
The recently published planar-chiral Daniphos ligand was employed in the asymmetric ring opening of oxanorbornadiene with methanol as the nucleophile, giving high enantioselectivities of up to 97.5% *ee*.



Victor N. Khrustalev, Ivan A. Portnyagin,
Nikolay N. Zemlyansky, Irina V. Borisova,
Yuri A. Ustynyuk, Mikhail Yu. Antipin,
Valery Lunin

J. Organomet. Chem. 690 (2005) 1172

New stable germylenes, stannylenes, and related compounds. 6. Heteroleptic germanium(II) and tin(II) compounds $[(\text{SiMe}_3)_2\text{N-E}^{14}\text{-OCH}_2\text{CH}_2\text{NMe}_2]_n$ ($\text{E}^{14} = \text{Ge}$, $n = 1$; Sn , $n = 2$): synthesis and structure

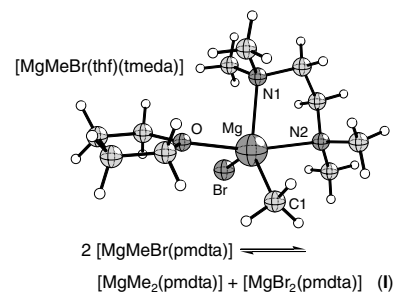


Rushdi I. Yousef, Bernhard Walfort,
Tobias Ruffer, Christoph Wagner,
Harry Schmidt, Renate Herzog,
Dirk Steinborn

J. Organomet. Chem. 690 (2005) 1178

Synthesis, characterization and Schlenk equilibrium studies of methylmagnesium compounds with *O*- and *N*-donor ligands – the unexpected behavior of $[\text{MgMeBr}(\text{pmdta})]$ ($\text{pmdta} = N,N,N',N'',N'''$ -penta-methyldiethylenetriamine)

Syntheses and temperature dependent NMR studies of some methylmagnesium complexes with different *O*- and *N*-donors L ($L = \text{thf}$, diglyme, NEt_3 , tmeda , dabco , pmdta) give insight into the influence of the co-ligand L on the position of the Schlenk equilibrium showing that in thf the equilibrium **I** ($\text{pmdta} = N,N,N',N'',N'''$ -pentamethyldiethylenetriamine) lies completely on the left side.

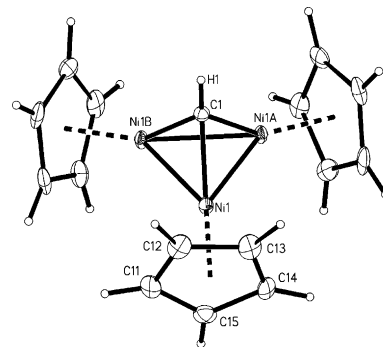


Wodzimierz Buchowicz, Katarzyna Starega,
Antoni Pietrzykowski,
Lucjan B. Jerzykiewicz

J. Organomet. Chem. 690 (2005) 1192

New insights into the reaction of nickelocene with methylolithium: the isolation and crystal structure of $(\text{NiCp})_3(\mu_3\text{-CH})$

Thermolysis of the cyclopentadienylnickel-methyl complex $[\text{NiCp}(\text{CH}_3)(\eta^2\text{-CH}_2=\text{CHC}_4\text{H}_9)]$ in various solvents led to the formation of a mixture of several cyclopentadienylnickel clusters. Separation of products by means of column chromatography allowed to isolate and crystallographically characterise $(\mu_3\text{-methylidyne})\text{tris}(\text{cyclopentadienylnickel})$ cluster $(\text{NiCp})_3(\mu_3\text{-CH})$, the first homolog in the family of alkylidyne tri(cyclopentadienylnickel) clusters.

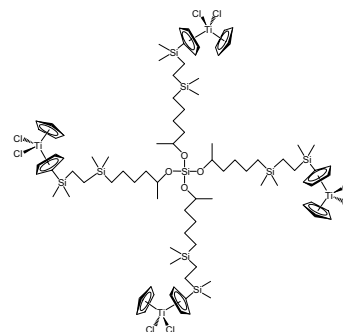


Roy Buschbeck, Heinrich Lang

J. Organomet. Chem. 690 (2005) 1198

Metallo-Carbosiloxan-Dendrimere mit Titanocendichlorid-Endgruppen

Die Synthese von Metallodendrimeren mit endständigen Titanocendichloridbausteinen durch die Hydrosilylierung von $(\eta^5\text{-C}_5\text{H}_4\text{SiMe}_2\text{CH}=\text{CH}_2)(\eta^5\text{-C}_5\text{H}_5)\text{TiCl}_2$ mit SiH-terminierten Carbosiloxandendrimeren wird vorgestellt.

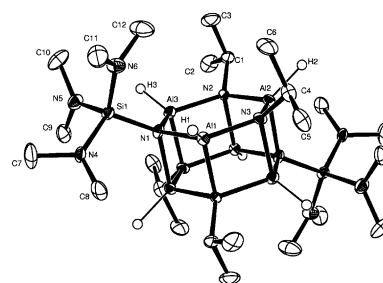


**Fei Cheng, Stephen Clark,
Stephen J. Archibald, Stephen M. Kelly,
John S. Bradley**

J. Organomet. Chem. 690 (2005) 1205

Synthesis and structure of tetrakis-(isopropylimino)bis[tris(dimethylamino)silyl-
amino]alane

Tris(dimethylamino)silylamine $\text{H}_2\text{NSi}(\text{NMe}_2)_3$ reacts with poly(isopropyliminoalane) $(\text{HAl-N}^i\text{Pr})_6$ leading to the formation of a novel cage-type compound tetrakis(isopropylimino)-bis[tris(dimethylamino)silyl-amino]alane, $\text{H}_6\text{-Al}_6(\text{N}^i\text{Pr})_4[\text{NSi}(\text{NMe}_2)_3]_2$. The molecular structure has been determined on the basis of its FTIR, NMR and X-ray crystallographic analysis.

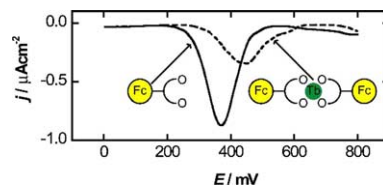


**Francis E. Appoh, Todd C. Sutherland,
Heinz-Bernhard Kraatz**

J. Organomet. Chem. 690 (2005) 1209

Ferrocenoyl-amino acids: redox response towards di- and trivalent metal ions

The interaction of ferrocene (Fc)-aspartate and Fc-glutamate conjugates with di- and trivalent metal ions are evaluated.

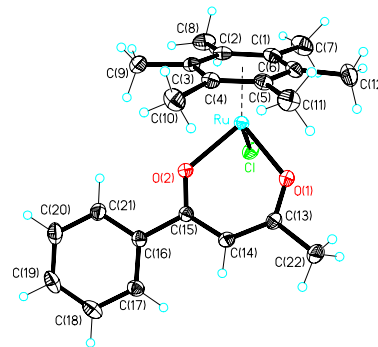


**P. Govindaswamy, Shaikh M. Mobin,
Carsten Thöne, Mohan Rao Kollipara**

J. Organomet. Chem. 690 (2005) 1218

Syntheses and characterization of η^6 -hexamethylbenzeneruthenium(II)- β -diketone complexes: their reactions with mono- and bidentate neutral ligands

The reaction of $[(\eta^6\text{-C}_6\text{Me}_6)\text{Ru}(\mu\text{-Cl})\text{Cl}]_2$ **1** with sodium β -diketonates in methanol gives orange-yellow colored neutral complexes. These compounds undergo a variety of substitution reactions with neutral ligands to afford mononuclear and binuclear-bridged complexes.

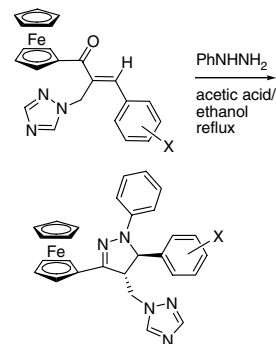


**Zhong Jin, Aihong Huo, Tao Liu, Yan Hu,
Jianbing Liu, Jianxin Fang**

J. Organomet. Chem. 690 (2005) 1226

Synthesis, structures and biological activity research of novel ferrocenyl-containing 1H-1,2,4-triazole derivatives

Synthesis, structures and biological activity research of novel ferrocenyl-containing 1H-1,2,4-triazole derivatives.

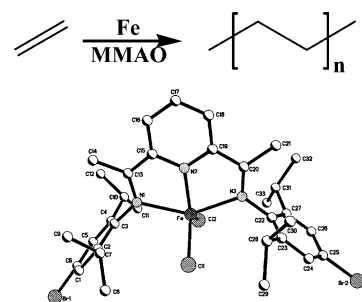


Jing-Yu Liu, Yi Zheng, Yan-Guo Li, Li Pan, Yue-Sheng Li, Ning-Hai Hu

J. Organomet. Chem. 690 (2005) 1233

Fe(II) and Co(II) pyridinebisimine complexes bearing different substituents on *ortho*- and *para*-position of imines: synthesis, characterization and behavior of ethylene polymerization

A series of 2,6-bis(imino)pyridyl iron(II) and cobalt(II) complexes containing different substituents on the *ortho*- and *para*-position of coordinating nitrogen atoms has been synthesized, characterized, and investigated as precatalysts for the polymerization of ethylene in the presence of modified methylaluminoxane.

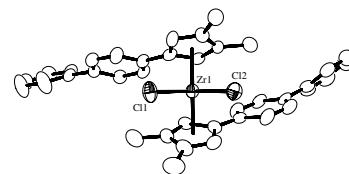


Min Hyung Lee, Youngkyu Do

J. Organomet. Chem. 690 (2005) 1240

Zirconocene complexes with a biphenyl substituted cyclopentadienyl ligand: synthesis, characterization, and olefin polymerization behavior

Nonbridged zirconocene complexes containing a 1-biphenyl-3,4-dimethylcyclopentadienyl ligand were prepared and their crystal structures have been determined. It was shown that they act as highly active catalysts in ethylene polymerization and afford atactic polypropylenes with good activity in propylene polymerization.

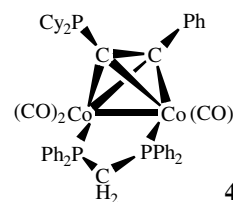


Fung-E Hong, Yi-Jung Ho, Yu-Chang Chang, Yi-Luen Huang

J. Organomet. Chem. 690 (2005) 1249

Synthesis of cobalt-containing monodentate phosphine ligand and application toward Suzuki cross-coupling reactions

A bulky, cobalt-containing phosphine ligand **4** coordinated palladium complex works as an effective catalyst for the Suzuki type cross-coupling reactions. The catalytic reactions were performed at ambient conditions using low catalyst loadings.

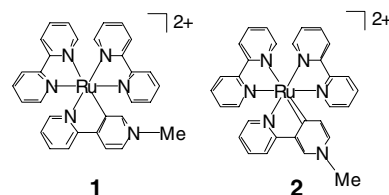


Take-aki Koizumi, Takashi Tomon, Koji Tanaka

J. Organomet. Chem. 690 (2005) 1258

Synthesis and electrochemical properties of bis(bipyridine)ruthenium(II) complexes bearing pyridinyl- and pyridinylidene ligands induced by cyclometalation of *N*-methylated bipyridinium analogs

Ruthenium complexes with bipyridine-analogous quaternized (N,C)-bidentate ligands [RuL(bpy)₂](PF₆)₂ (bpy = 2,2'-bipyridine, **1**), L = *N*'-methyl-2,4'-bipyridinium; **2**), L = *N*'-methyl-2,3'-bipyridinium) were synthesized and characterized. The NMR and electrochemical studies indicate that the C-coordinated ring of (N,C)-ligands in **1** and **2** are linked to ruthenium(II) with pyridinium and pyridinylidene manners, respectively.

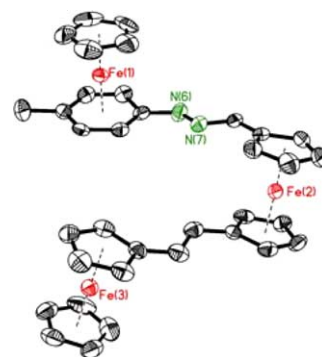


**Carolina Manzur, Lorena Millán,
Mauricio Fuentealba, Jose A. Mata,
David Carrillo, Jean-René Hamon**

J. Organomet. Chem. 690 (2005) 1265

Donor/acceptor organoiron(II) hydrazone chromophores: structural, spectroscopic and electrochemical properties

New conjugated trinuclear organoiron(II) complexes in which a *trans*-1,2-ferrocenyl-ferrocenylene ethene fragment (electron-donors) is attached to an electron-deficient cationic mixed sandwich via a hydrazone bridge have been prepared. These complexes have therefore the basic architectural and electronic properties necessary to exhibit second-order non-linear optical behaviour.

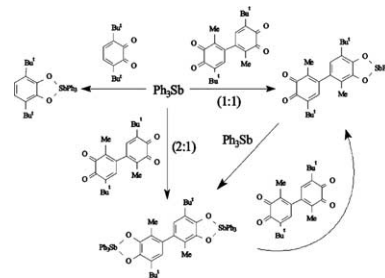


**Vladimir K. Cherkasov,
Ekaterina V. Grunova,
Andrey I. Poddelsky, Georgy K. Fukin,
Yury A. Kurskii, Ludmila G. Abakumova,
Gleb A. Abakumov**

J. Organomet. Chem. 690 (2005) 1273

Oxidative addition reaction of *o*-quinones to triphenylantimony: novel triphenylantimony catecholate complexes

New catecholate complexes triphenyl(3,6-di-*tert*-butylcatecholato)antimony(V), triphenyl-(perchloroxanthrenecatecholato)antimony(V), 4-(2-methyl-5-*tert*-butyl-cyclohexadienyl-1,5-dion-3,4-yl)-(3-methyl-6-*tert*-butylcatecholato)triphenylantimony(V) and 4,4'-di-[(3-methyl-6-*tert*-butyl-catecholato)triphenylantimony(V)] were prepared by the oxidative addition reaction and characterized. Their molecular structures were determined by X-ray crystallography to be a distorted tetragonal-pyramidal.

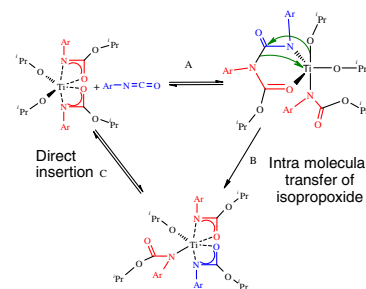


**Rajshekhhar Ghosh, Munirathinam Nethaji,
Ashoka G. Samuelson**

J. Organomet. Chem. 690 (2005) 1282

Reversible double insertion of aryl isocyanates into the Ti-O bond of titanium(IV) isopropoxide

The insertion of a second aryl isocyanate into titanium isopropoxide can take place through a multiple insertion pathway. The incoming isocyanate first inserts into the coordinated carbamate on the nitrogen side and subsequently "transfers" it to the isopropoxide on the titanium.

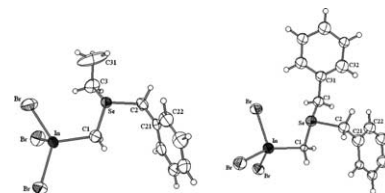


**Fabiano Molinos de Andrade, Werner Massa,
Cloviseppe, Werner Uhl**

J. Organomet. Chem. 690 (2005) 1294

Synthesis and molecular structures of dialkylselenonium methylide complexes of indium tribromide

The reaction of bromomethyl-dibromoindium(III), $\text{Br}_2\text{InCH}_2\text{Br}$ with dialkylselenides, R^1SeR^2 ($\text{R}^1 = \text{CH}_3$, $\text{R}^2 = \text{CH}_2\text{C}_6\text{H}_5$; $\text{R}^1 = \text{C}_2\text{H}_5$, $\text{R}^2 = \text{CH}_2\text{C}_6\text{H}_5$; $\text{R}^1 = \text{R}^2 = \text{CH}_2\text{C}_6\text{H}_5$) afforded the corresponding dialkylselenonium methylide complexes of indium tribromide, $\text{Br}_3\text{InCH}_2\text{SeR}^1\text{R}^2$, which were fully characterized by NMR spectroscopy and single crystal X-ray diffraction studies.

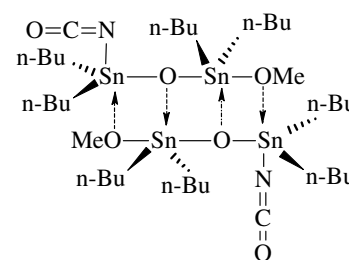


Jianjun Sun, Bolun Yang, Hongye Lin,
Xiaoping Wang, Dongpeng Wang

J. Organomet. Chem. 690 (2005) 1300

Novel process for synthesis of 1,1,3,3-tetra-
butyl-1-methoxy-3-isocyanatodistannoxane

A new process for synthesis of 1,1,3,3-tetra-
butyl-1-methoxy-3-isocyanatodistannoxane
(TBMI) from dibutyltin oxide (DSnO), meth-
yl carbamate and methanol was proposed.
The structure of the TBMI was confirmed by
UV-Vis, elemental analyses, FTIR and
HPLC. The effects of various conditions,
such as reaction temperature, pressure, re-
action time, molar ratio of the reactants and
the stirring speed were investigated in the
terms of TBMI yield.

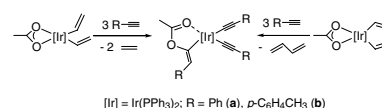


Chong Shik Chin, Hyungeui Lee,
Myung Ki Lee, Soyoung Noh, Min-Sik Eum,
Seunggweon Hong

J. Organomet. Chem. 690 (2005) 1306

1,1-Insertion of substituted alkynes into the
Ir-O bond of η^2 -carboxylato iridium
complexes

$[\text{Ir}(\text{CH}_3)(\text{CO})(\eta^2\text{-O}_2\text{CR}')\text{L}_2]^+$ ($\text{R}' = \text{CH}_3$,
Ph, $p\text{-C}_6\text{H}_4\text{CH}_3$; $\text{L} = \text{PPh}_3$) react with $\text{RC}\equiv\text{CH}$
($\text{R} = \text{Ph}$, $p\text{-C}_6\text{H}_4\text{CH}_3$) in the presence of
 NEt_3 to give $\text{Ir}(\text{C}(\equiv\text{O})\text{CH}_3)(\text{C}\equiv\text{CR})(\eta^2\text{-O}_2\text{CR}')\text{L}_2$
which further react with $\text{RC}\equiv\text{CH}$
to give *cis*-bis(alkynyl)-iridium $\text{Ir}(\text{CH}_3)\text{-}$
 $(\text{CO})(\text{C}\equiv\text{CR})_2\text{L}_2$. *cis*-Bis(alkynyl)- η^2 -acetato-
iridium $\text{Ir}(\text{C}=\text{CR})_2(\eta^2\text{-O}_2\text{CCH}_3)\text{L}_2$ obtained
from reactions of $\text{Ir}(\text{CH}=\text{CH}_2)_2(\eta^2\text{-O}_2\text{CCH}_3)\text{L}_2$
and $\text{Ir}(\text{-CH}=\text{CH}-\text{CH}=\text{CH-})(\eta^2\text{-O}_2\text{CCH}_3)\text{L}_2$
with $\text{RC}\equiv\text{CH}$ undergo the
1,1-insertion reaction of $\text{RC}\equiv\text{CH}$ into the
Ir-O bond to produce iridacycles
 $(\text{C}\equiv\text{CR})_2\text{L}_2$.

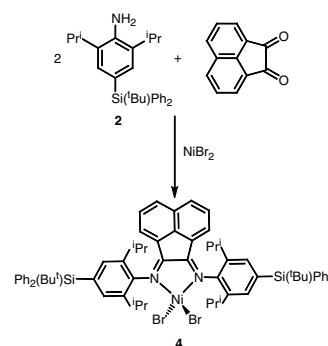


Hua-Rong Liu, Pedro T. Gomes,
Sandra I. Costa, M. Teresa Duarte,
R. Branquinho, Anabela C. Fernandes,
James C.W. Chien, R.P. Singh,
Maria M. Marques

J. Organomet. Chem. 690 (2005) 1314

Highly active new α -diimine nickel catalyst
for the polymerization of α -olefins

A new silylated α -diimine ligand, bis[*N,N'*-
(4-*tert*-butyl-diphenylsilyl)-2,6-diisopropyl-
phenyl]imino]acenaphthene **3**, and its
corresponding Ni(II) complex, {bis[*N,N'*-
(4-*tert*-butyl-diphenylsilyl)-2,6-diisopropyl-
phenyl]imino]acenaphthene}dibromonickel **4**,
have been synthesized and characterized.

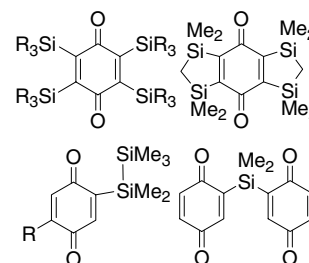


Shinobu Tsutsui, Kenkichi Sakamoto,
Hirotoshi Yoshida, Atsutaka Kunai

J. Organomet. Chem. 690 (2005) 1324

Cyclic voltammetry and theoretical
calculations of silyl-substituted 1,4-benzo-
quinones

The electrochemical properties of tetra-
kissilylquinones, 2-(pentamethyldisilanyl)-
quinones, and a silicon-bridged quinone
dimer were investigated. Theoretical calcu-
lations of the quinones reproduced well the
first half-wave reduction potentials of the
compounds.

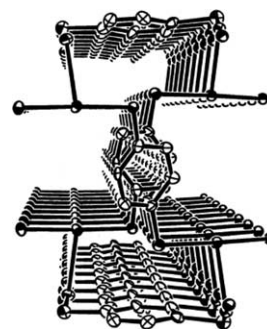


Keiko Nunokawa, Kazuya Okazaki, Satoru Onaka, Mitsuhiro Ito, Tetsuya Sunahara, Tomoji Ozeki, Hiroyuki Imai, Katsuya Inoue

J. Organomet. Chem. 690 (2005) 1332

Synthesis and X-ray structure study on new Au(I) polymer architectures based on multi-sulfur tentacles

Multi-S-containing ligands such as $S_2-C_6H_4$ and $S_3-C_6H_3$ are used as a scaffold to construct new supramolecules **1–5**. Aurophilic interactions have been demonstrated for **1**, **2**, **4**, and **5** to produce new supramolecular architectures. An 8 (eight)-shaped loop is formed in solid state for **2**. An infinite zigzag chain is constructed for **4** and **5**.

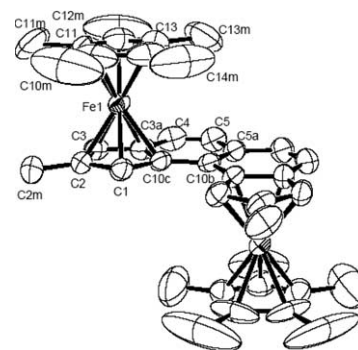


M.K. Amshumali, Ivonne Chávez, Verónica Arancibia, F. Burgos O, Juan M. Manríquez, Elies Molins, Anna Roig

J. Organomet. Chem. 690 (2005) 1340

Synthesis, characterization and structure of diiron organometallic derivatives of 2,9-dimethyl-1,10-dihydro-dicyclopenta[*a,h*]-naphthalene

The reaction of the dilithium salt of the bridging ligand 2,9-dimethyl-1,10-dihydro-dicyclopenta[*a,h*]naphthalene with two equivalents of $Cp^*Fe(acetyl-acetonate)$ gives the complex **1** whose structure determination was carried by X-ray crystallography. Oxidation of **1** with ferrocenium affords the corresponding mixed valence compound **2** that exhibits an absorption band at 850 nm. Cyclic voltammetry shows a potential difference of 348 mV between both redox peaks. The Mössbauer investigations at different temperatures show a unique Fe^{2+} environment for the neutral compound, whereas two sites appear in the mono-oxidized compound which are assigned to Fe^{2+} and Fe^{3+} .

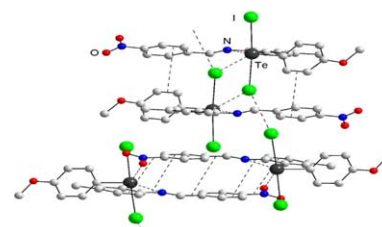


Ashok K.S. Chauhan, Anamika, Arun Kumar, Ramesh C. Srivastava, Ray J. Butcher, Jens Beckmann, Andrew Duthie

J. Organomet. Chem. 690 (2005) 1350

The interplay of secondary $Te \cdots N$, $Te \cdots O$, $Te \cdots I$ and $I \cdots I$ interactions, $Te \cdots \pi$ contacts and π -stacking in the supramolecular structures of [$\{2-(4\text{-nitrobenzylideneamino})-5\text{-methyl}\}$ phenyl](4-methoxyphenyl)tellurium-dihalides

The unsymmetrical diorganotellurium dihalides $[2-(4,4'\text{-NO}_2\text{C}_6\text{H}_4\text{CH=NC}_6\text{H}_3\text{Me})(4\text{-Y-C}_6\text{H}_4)\text{TeX}_2]$ ($X = \text{Cl}$, $Y = \text{MeO}$, **1a**; $Y = \text{Me}$, **2**; $Y = \text{H}$, **3**; $Y = \text{MeO}$, $X = \text{Br}$, **1b**; I , **1c**) were prepared and characterized. Molecular structures of **1a** and **1c** show scarcely observed 1,4-type intramolecular secondary $Te \cdots N$ coordination. Crystal packing of **1c** exhibits an unusually rich diversity of intermolecular $Te \cdots O$, $Te \cdots I$ and $I \cdots I$ interactions while that of **1a** shows $Te \cdots \pi$ and $\pi \cdots \pi$ interactions as the only intermolecular associative forces.

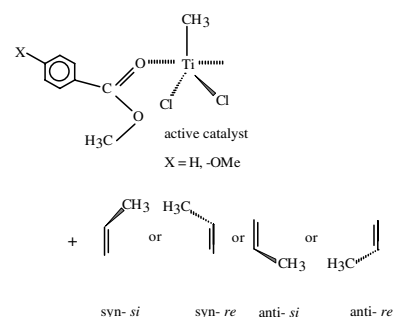


Sami Mukhopadhyay, Sudhir A. Kulkarni, Sumit Bhaduri

J. Organomet. Chem. 690 (2005) 1356

Density functional study on the role of electron donors in propylene polymerization using Ziegler–Natta catalyst

The role of electron donors like methyl benzoate and *para*-methoxy methyl benzoate on performance, regioselective and stereospecific control of Ziegler–Natta model catalyst $[TiCl_2CH_3]^+$ in propylene polymerization has been investigated using density functional calculations.

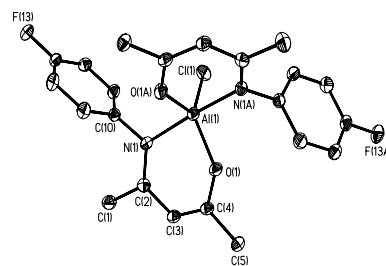


**Piyush Shukla, John C. Gordon,
Alan H. Cowley, Jamie N. Jones**

J. Organomet. Chem. 690 (2005) 1366

Fluoroaryl-substituted ketiminate complexes of aluminum

The reaction of the β -aminoenone, $\text{O}=\text{C}(\text{Me})\text{CH}=\text{C}(\text{Me})\text{N}(\text{H})(p\text{-C}_6\text{H}_4\text{F})$ with $\eta\text{-BuLi}$, followed by the addition of AlCl_3 , affords the ketiminate complex $\text{AlCl}[\text{OC}(\text{Me})\text{CHC}(\text{Me})\text{N}(p\text{-C}_6\text{H}_4\text{F})_2]$ and the salt $[\text{AlCl}_2\{\text{O}=\text{C}(\text{Me})\text{CH}=\text{C}(\text{Me})\text{N}(\text{H})(p\text{-C}_6\text{H}_4\text{F})\}_4]^-[\text{AlCl}_4]^+$.

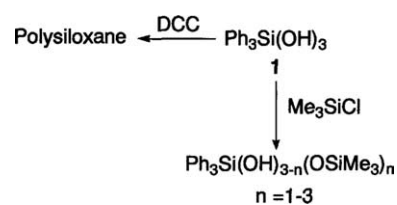


**Jeong Hyun Kim, Joon Soo Han,
Myong Euy Lee, Do Hyun Moon,
Myoung Soo Lah, Bok Ryul Yoo**

J. Organomet. Chem. 690 (2005) 1372

Solid-state structure and condensation reaction of (triphenylmethyl)silanetriol

Solid-state structure, thermal properties, and condensation reaction of (triphenylmethyl)silanetriol [**1**, $\text{Ph}_3\text{Si}(\text{OH})_3$] have been studied. The single crystal of [**1** · acetone] for X-ray diffraction was grown as colorless from a concentrated acetone solution. The solid structure of [**1** · acetone] was disclosed to be one-dimensional polymeric tube in head to head hydrogen-bonding fashion. Compound **1** underwent condensation reactions with DCC and with Me_3SiCl to give polysiloxanes and silylated compounds $[\text{Ph}_3\text{Si}(\text{OH})_{3-n}(\text{OSiMe}_3)_n]$, respectively.

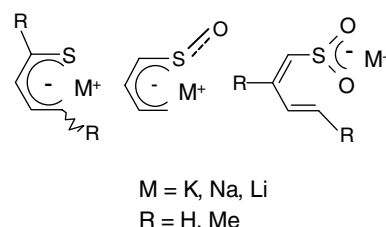


**Prócoro Gamero-Melo,
Manuel Villanueva-García, Juvencio Robles,
Rosalinga Contreras,
M. Angeles Paz-Sandoval**

J. Organomet. Chem. 690 (2005) 1379

A combined experimental and theoretical study of metallic salts of thiapentadienyl, sulfinylpentadienyl and butadienesulfonyls

Alternative methods for the synthesis of acyclic salts of thiapentadienyl ($\text{CH}_2\text{CH}=\text{CHCHS}$)M [$\text{M} = \text{K}$, **1(K)**; Na , **1(Na)**; Li , **1(Li)**], sulfinylpentadienyl ($\text{CH}_2\text{CH}=\text{CHCHSO}$)M [$\text{M} = \text{K}$, **2(K)**; Na , **2(Na)**] and butadienesulfonyl ($\text{CH}_2\text{CH}=\text{CHCHSO}_2$)M [$\text{M} = \text{K}$, **3(K)**; Na , **3(Na)**; Li , **3(Li)**] are described, as a result of the activation of C-S bond in dihydrothiophenes by deprotonation with different bases. A theoretical study shows that electronic and geometrical properties are in good agreement with the experimental findings.

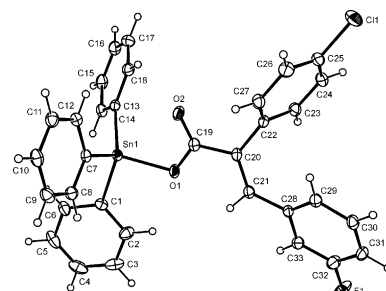


**Sadiq-ur-Rehman, Khadija Shahid, Saqib Ali,
Moazzam H. Bhatti, Masood Parvez**

J. Organomet. Chem. 690 (2005) 1396

Organotin esterification of (*E*)-3-(3-fluorophenyl)-2-(4-chlorophenyl)-2-propenoic acid: synthesis, spectroscopic characterization and in vitro biological activities. Crystal structure of $[\text{Ph}_3\text{Sn}(\text{OC}(\text{O})\text{C}(\text{4-ClC}_6\text{H}_4)=\text{CH}(3\text{-FC}_6\text{H}_4))]$

Nine organotin(IV) compounds containing (*E*)-3-(3-fluorophenyl)-2-(4-chlorophenyl)-2-propenoate ligand were synthesized, screened for biological activity and characterized by spectroscopic and single crystal X-ray analysis.

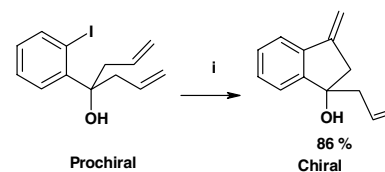


Note

Michael P. Coogan, Mark J. Pottenger*J. Organomet. Chem.* 690 (2005) 1409

Desymmetrisation of a diallyl system by intramolecular Heck reaction

A prochiral diallyl system is cleanly desymmetrised by an intramolecular Heck reaction to give a new quaternary chiral centre in a synthetically useful species. The development of the reaction and appropriate conditions are discussed.



i) $\text{PdCl}_2(\text{PPh}_3)_2$, HNEt_2 , DMF 86%
Desymmetrisation

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