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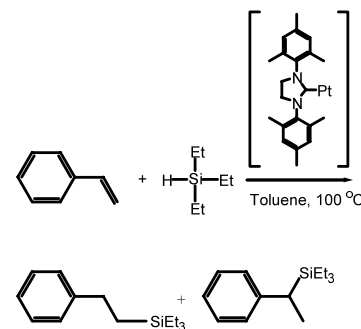
Short Communication

Jeroen W. Sprengers, Maayke J. Mars,
Marcel A. Duin, Kingsley J. Cavell,
Cornelis J. Elsevier

J. Organomet. Chem. 679 (2003) 149

Selective hydrosilylation of styrene using an in situ formed platinum(1,3-dimesityl-dihydroimidazol-2-ylidene) catalyst

An in situ generated platinum-carbene complex catalyzes the hydrosilylation of styrene with triethylsilane with great efficiency. The yield and selectivity of hydrosilylation addition products amount to almost 100%. Products due to dehydrogenative silylation are virtually absent.



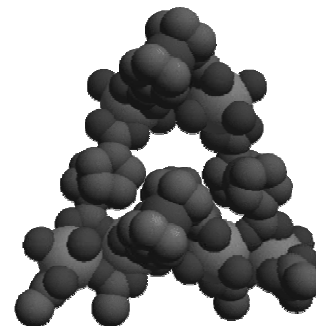
Regular Papers

Xiangru Meng, Gang Li, Hongwei Hou,
Huayun Han, Yaoting Fan, Yu Zhu,
Chenxia Du

J. Organomet. Chem. 679 (2003) 153

A series of novel metal-ferrocenedicarboxylate coordination polymers: crystal structures, magnetic and luminescence properties

Novel two-dimensional layered lanthanide(III)-ferrocenedicarboxylate polymers $\{[M(\eta^2\text{-O}_2\text{CFcCO}_2\text{-}\eta^2)(\mu_2\text{-}\eta^2\text{-O}_2\text{CFcCO}_2\text{-}\eta^2\text{-}\mu_2)_{0.5}(\text{H}_2\text{O})_2] \cdot m\text{H}_2\text{O}\}_n$ ($M = \text{Tb}^{3+}$, $m = 2$, **1**; $M = \text{Eu}^{3+}$, $m = 2$, **2**; $M = \text{Y}^{3+}$, $m = 1$, **3**) and one-dimensional wave-shaped Cd(II)-ferrocenedicarboxylate polymer $\{[\text{Cd}(\eta^2\text{-O}_2\text{CFcCO}_2\text{-}\eta^2)(\text{H}_2\text{O})_3] \cdot 4\text{H}_2\text{O}\}_n$ (**4**) have been prepared. The magnetic behaviors for **1** and **2** were studied in the temperature range of 5.0–300 K. In addition, compared with free ligand sodium ferrocenedicarboxylate, the fluorescent intensities of the polymers **1–4** are enhanced in solid state.

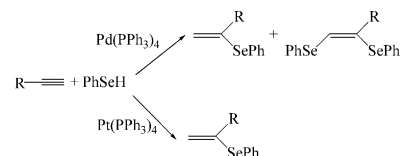


Valentine P. Ananikov, Denis A. Malyshev,
Irina P. Beletskaya,
Grigory G. Aleksandrov,
Igor L. Eremenko

J. Organomet. Chem. 679 (2003) 162

Palladium and platinum catalyzed hydroselenation of alkynes: Se-H vs Se-Se addition to C=C bond

Palladium catalyzed hydroselenation of alkynes gives the products of both Se-H and Se-Se bonds addition to the triple bond, while platinum complex selectively catalyzes Se-H bond addition.

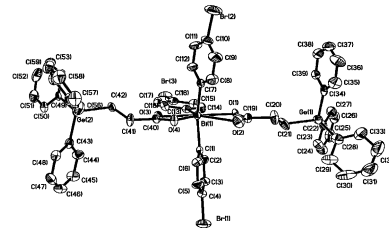


**Lin Yu, Yong-Qiang Ma, Guo-Cang Wang,
Jin-Shan Li, Guan-Hua Du, Juan-Juan Hu**

J. Organomet. Chem. 679 (2003) 173

Synthesis, characterization and in vitro anti-tumor activity of some arylbismuth triphenylgermylpropionates and crystal structures of (4-BrC₆H₄)₃Bi(O₂CCH₂CH₂GePh₃)₂ and (4-BrC₆H₄)₃Bi[O₂CCH(CH₃)CH₂GePh₃]₂

A series of novel arylbismuth(V) triphenylgermylpropionates with the formula Ar₃-Bi(O₂CCHR¹CHR²GePh₃)₂ (R¹ = H, CH₃; R² = H, Ph; Ar = Ph, 4-CH₃C₆H₄, 4-FC₆H₄, 4-ClC₆H₄, 4-BrC₆H₄) were synthesized and characterized by elemental analysis, IR, ¹H-NMR and mass spectroscopy. The crystal structures of (4-BrC₆H₄)₃-Bi(O₂CCH₂CH₂GePh₃)₂ and (4-BrC₆H₄)₃-Bi[O₂CCH(CH₃)CH₂GePh₃]₂ were determined by X-ray diffraction.

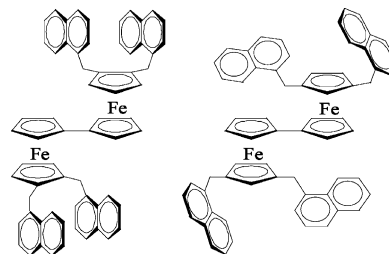


**Teng-Yuan Dong, Mei-Ching Lin,
Liangshiu Lee, Ching-Hung Cheng,
Shie-Ming Peng, Gene-Hsiang Lee**

J. Organomet. Chem. 679 (2003) 181

Pronounced effects of grinding on rates of intramolecular electron transfer in mixed-valence 1',2',1''',2'''-tetranaphthylmethyl- and 1',3',1''',3'''-tetranaphthylmethyl-biferrocenium triiodides

To study the influence of naphthylmethyl substituents on the intramolecular electron-transfer rate, two new mixed-valence 1',2',1''',2'''-tetranaphthylmethyl- and 1',3',1''',3'''-tetranaphthylmethyl-biferrocenium triiodides were prepared. The structural determinations, CV, ⁵⁷Fe Mössbauer, and EPR measurements were carried out. An interesting finding is that the grinding of the sample has a pronounced influence on the ⁵⁷Fe Mössbauer characteristics.

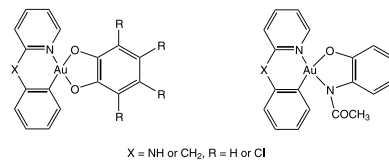


**Carol H.A. Goss, William Henderson,
Alistair L. Wilkins, Cameron Evans**

J. Organomet. Chem. 679 (2003) 194

Synthesis, characterisation and biological activity of gold(III) catecholate and related complexes

Reactions of gold(III) dichloride complexes (containing ancillary cyclo-aured arylamine or -pyridine ligands) with various catechols and excess trimethylamine base give a series of gold(III) catecholate complexes; related complexes containing dioxolene ligands were prepared from the α,β -diketone SCH(CO₂Et)C(O)C(O)CH(CO₂Et). Several complexes show high activity against P388 leukaemia cells.

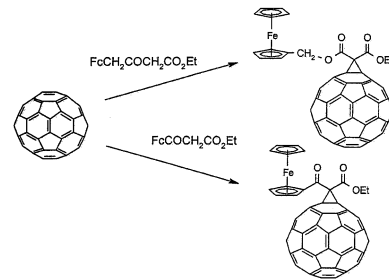


**Barbara Floris, Pierluca Galloni,
Roberta Seraglia, Pietro Tagliatesta**

J. Organomet. Chem. 679 (2003) 202

Synthesis of new ferrocenyl derivatives and their use in the first cyclopropanation of fullerene C₆₀ with ferrocenes

New ferrocenyl derivatives (a β -ketoester and a β -diester) were synthesised and linked to fullerene C₆₀, with the aim to elucidate factors involved in intramolecular electronic communication. These are the first examples of fullerene functionalised with ferrocenes via the cyclopropanation reaction. The resulting dyads were characterised.

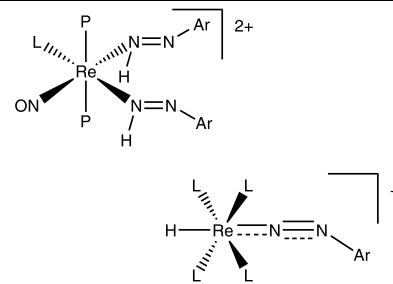


Gabriele Albertin, Stefano Antoniutti, Fabio Bredariol

J. Organomet. Chem. 679 (2003) 208

Preparation of bis(aryldiazene) and new aryldiazenido complexes of rhenium

The synthesis of the unprecedented bis(aryldiazene) complexes of rhenium $[\text{Re}(\text{ArN}=\text{NH})_2(\text{NO})\text{L}(\text{PPh}_3)_2(\text{BPh}_4)_2]$ (L = phosphite) was achieved by using the mixed-ligand $\text{ReH}_2(\text{NO})\text{L}(\text{PPh}_3)_2$ hydride as a precursor in the reaction with an excess of aryldiazonium salts. The related $\text{ReH}_2(\text{NO})(\text{PPh}_3)_3$ instead exclusively gives mono-aryldiazene $[\text{ReH}(\text{ArN}=\text{NH})(\text{NO})(\text{PPh}_3)_3]\text{BPh}_4$ derivatives. Hydride-aryldiazenido $[\text{ReH}(\text{C}_6\text{H}_5\text{N}_2)\{\text{PPh}(\text{OEt})_2\}_4]\text{BPh}_4$ was also prepared by allowing trihydride $\text{ReH}_3\{\text{PPh}(\text{OEt})_2\}_4$ to react with phenyldiazonium tetrafluoroborate.



$\text{P} = \text{PPh}_3$; L = phosphite

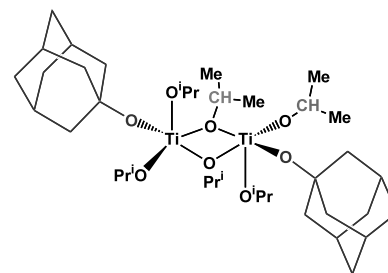
Yolanda Pérez, Isabel del Hierro, Mariano Fajardo, Antonio Otero

J. Organomet. Chem. 679 (2003) 220

Synthesis and structure of titanium alkoxide complexes with bulky ligands derived from natural products

Asymmetric epoxidation of cinnamyl alcohol

A series of titanium(IV) alkoxide compounds $[\{\text{Ti}(\text{OPr}^i)_3(\text{OR})\}_2]$, $[\{\text{Ti}(\text{OPr}^i)_2(\text{OR})_2\}_2]$, and $[\text{Ti}(\text{OR})_4]$ (ROH = adamantanol, 1,2,3,4-di-*O*-isopropylidene- α -D-galactopyranose, 1,2:5,6-di-*O*-isopropylidene- α -D-glucofuranose, 1*R*,2*S*,5*R*-($-$)-menthol) with bulky ligands derived from natural products have been synthesized and characterized by spectroscopic techniques. These compounds have been tested as catalysts in the enantioselective epoxidation of cinnamyl alcohol.



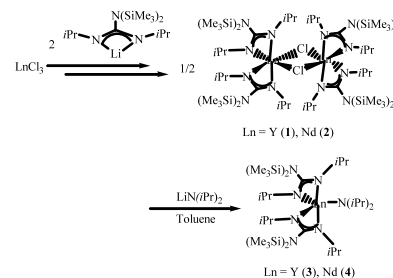
Yingming Yao, Yunjie Luo, Jinglei Chen, Zhenqin Zhang, Yong Zhang, Qi Shen

J. Organomet. Chem. 679 (2003) 229

Synthesis and characterization of bis(guanidinate)lanthanide diisopropylamido complexes

New highly active initiators for the polymerizations of ϵ -caprolactone and methyl methacrylate

A series of bis(guanidinate)organolanthanide complexes, $\{[(\text{SiMe}_3)_2\text{NC}(\text{N}i\text{Pr})_2]_2\text{Ln}(\mu\text{-Cl})_2$ ($\text{Ln} = \text{Y}$ (**1**), Nd (**2**)) and $[(\text{SiMe}_3)_2\text{NC}(\text{N}i\text{Pr})_2]_2\text{LnN}(i\text{Pr})_2$ ($\text{Ln} = \text{Y}$ (**3**), Nd (**4**)), were synthesized and well characterized. The single-crystal structural analyses of **2** and **3** revealed that the coordination geometries of lanthanide metals are best described as a distorted pseudo-octahedron and a pseudo-pyramid, respectively. Complexes **3** and **4** exhibited extremely high activity for the polymerizations of ϵ -caprolactone and MMA.



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