



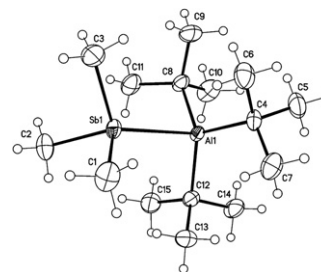
Contents

COMMUNICATION

**Stephan Schulz, Andreas Kuczkowski,
Martin Nieger, Heidi Saxell**

J. Organomet. Chem. 695 (2010) 2281

The synthesis of the Lewis acid–base adduct *t*-Bu₃Al–SbMe₃ (**1**) and its characterization by multinuclear NMR (¹H, ¹³C) spectroscopy and single crystal X-ray diffraction is reported.



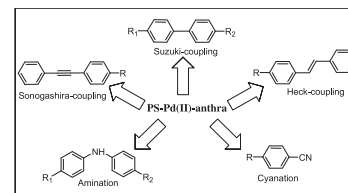
REGULAR PAPERS

**Manirul Islam, Paramita Mondal,
Kazi Tuhina, Anupam Singha Roy,
Sanchita Mondal, Dilder Hossain**

J. Organomet. Chem. 695 (2010) 2284

The polymer anchored catalyst, PS–Pd(II)–anthra, has been prepared and exhibited high activities toward the coupling (C–C

and C–N) and cyanation reaction. The catalyst can be reused up to five times, without significant loss of activity.

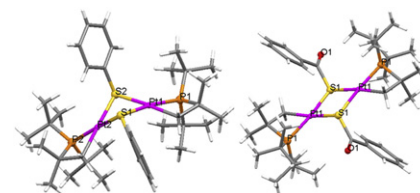


**Ninad Ghavale, Amey Wadawale,
Sandip Dey, Vimal K. Jain**

J. Organomet. Chem. 695 (2010) 2296

Reactions of [Pt₂(μ-Cl)₂(C^NP)₂] (C^NP = CH₂C(Me)₂PBu^t₂-C,P) with various anionic ligands differing in ligand bite and denticity have been investigated. Structures of [Pt₂(μ-SPh)₂(C^NP)₂], [Pt₂(μ-pz)₂(C^NP)₂], [PtCl(Spy)

(PBu^t₃)], [Pt₂(μ-SCOPh)₂(C^NP)₂] and [Pt{S₂P(OPrⁱ)₂}(C^NP)] have been established by single crystal X-ray diffraction analyses. The molecular structure of [Pt{S₂P(OPrⁱ)₂}(C^NP)] revealed that complex comprises of two four-membered chelate rings but in solution a dimeric structure based on ¹⁹⁵Pt NMR data has been suggested.

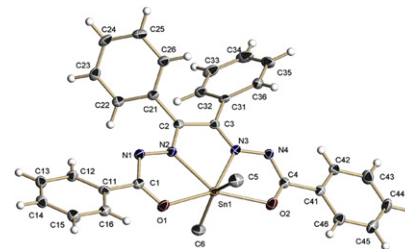


Elena López-Torres, Antonio L. Medina-Castillo, Jorge F. Fernández-Sánchez, M. Antonia Mendiola

J. Organomet. Chem. 695 (2010) 2305

Three organotin complexes have been synthesised by reaction of the ligand benzil bis(benzoylhydrazone) LH₂ with SnR₂Cl₂ or SnR₃Cl (R = Me, Bu, Ph) that have been fully characterised. The luminescent properties

of the ligand and its complexes have also been tested as well as the effect of pH, the addition of acetone and the ionic strength over the luminescence intensity

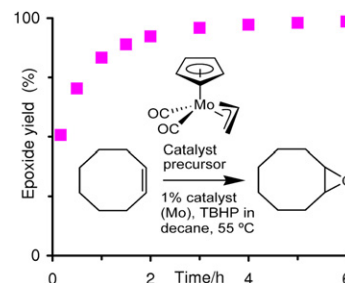


Patrícia Neves, Cláudia C.L. Pereira, Filipe A. Almeida Paz, Sandra Gago, Martyn Pillinger, Carlos M. Silva, Anabela A. Valente, Carlos C. Romão, Isabel S. Gonçalves

J. Organomet. Chem. 695 (2010) 2311

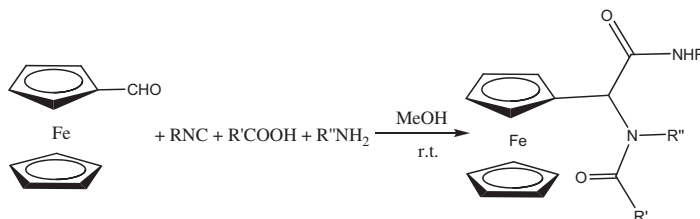
The complexes Cp'⁺Mo(CO)₂(η³-C₃H₅) [Cp' = η⁵-C₅H₅ (**1**), η⁵-C₅H₄Me (**2**), η⁵-C₅Me₅ (**3**)] are easily storable catalyst precursors that can be used directly for the

selective epoxidation of linear and cyclic olefins. The X-ray crystal structures of **2** and **3** are described.



Roya Akbarzadeh, Peiman Mirzaei, Ayoob Bazgir

J. Organomet. Chem. 695 (2010) 2320

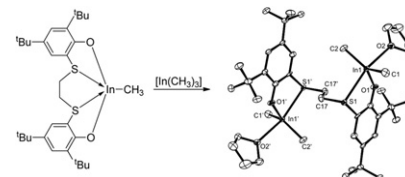


Ilja Peckermann, Thomas S. Dols, Thomas P. Spaniol, Jun Okuda

J. Organomet. Chem. 695 (2010) 2325

Dinuclear indium bis(phenolato) complexes were prepared from [In(CH₃)₃] and tetradentate 1,2-dithiaalkanediy-bridged bis

(phenol). The nature of the ligand bridging the two indium centers was revealed by X-ray diffraction studies.

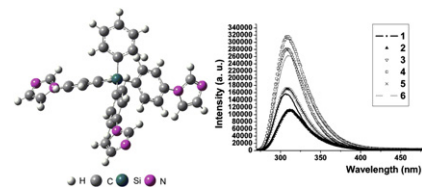


**Dengxu Wang, Yuzhong Niu, Yike Wang,
Jianjun Han, Shengyu Feng**

J. Organomet. Chem. 695 (2010) 2329

A series of tetrahedral silicon-centered imidazolyl derivatives have been synthesized and fully characterized. They all

display high thermal stability, are fluorescent with emission in the region of violet to blue, which could be potentially used as blue emitters or hosting blocking materials in OLEDs.

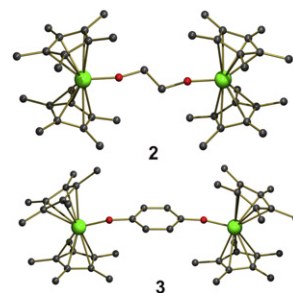


**Michal Horáček, Róbert Gyepes,
Ivana Císařová, Jiří Kubišta, Jiří Pinkas,
Karel Mach**

J. Organomet. Chem. 695 (2010) 2338

Triplet state EPR spectra of **2** and **3** in organic glasses afford very similar zero-field splitting *D* although the crystallographic Ti–Ti distance for **3** is by 1.880(1) Å longer than that of **2**. Since a larger bending of **3** in toluene glass is impossible due to

steric hindrance, an enhancement of spin interaction by conjugated quinonide link is to be suggested.

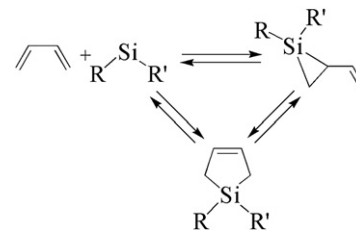


**S.S. Rynin, V.I. Faustov, S.E. Boganov,
M.P. Egorov, O.M. Nefedov**

J. Organomet. Chem. 695 (2010) 2345

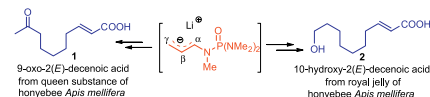
The PESs of systems including deactivated silylenes (SiHHal, SiHal₂, Hal = F, Cl, and 2-silaimidazol-2-ylidene) and buta-1,3-diene have been studied using G3(MP2)//B3LYP method. The (2 + 1) and (4 + 1)

cycloaddition reactions, leading to 2-vinylsiliranes and silacyclopent-3-enes, respectively, as well as [1,3]-sigmatropic rearrangements between 2-vinylsiliranes and silacyclopent-3-enes have been considered.



**Tomasz K. Olszewski, Catherine Bomont,
Philippe Coutrot, Claude Grison**

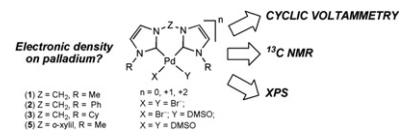
J. Organomet. Chem. 695 (2010) 2354



**Gabriella Buscemi, Marino Basato,
Andrea Biffis, Armando Gennaro,
Abdirisak Ahmed Isse, Marta
Maria Natile, Cristina Tubaro**

J. Organomet. Chem. 695 (2010) 2359

A series of N-heterocyclic dicarbene palladium(II) complexes has been characterised combining different techniques (cyclic voltammetry, XPS and ^{13}C NMR spectroscopy), in order to evaluate the influence of the dicarbene ligand on the electronic properties of the metal centre.



**Mitsushiro Nomura, Shigemi Kondo,
Souichi Yamashita, Eriko Suzuki,
Yoshiko Toyota, Glenn V. Alea, Gerardo
C. Janairo, Chikako Fujita-Takayama,
Toru Sugiyama, Masatsugu Kajitani**

J. Organomet. Chem. 695 (2010) 2366

[CpCo(dpdt)], [CpCo(bddt)], [CpCo(dtdt)] and [CpCo(poddt)] crystallized in all isostructural with the corresponding paramagnetic [CpNi(dithiolene)][•] complexes,

but [CpCo(dmid)], [CpCo(dddt)] and [CpCo(F₂pddt)] crystallized in non-isostructural with them. Electrochemical behavior and electronic absorption spectra of the sulfur-rich [CpCo(dithiolene)] complexes could be also compared with the early data of [CpNi(dithiolene)][•] complexes.

