

## Contents of Volume 684

**Special Issue: Metal-Carbon Multiple Bonds and Related Organometallics Dedicated to Professor E.O. Fischer on his 85th Birthday**

**Foreword**

Mediator between chemical worlds, aesthete of sciences, and man of Bavaria: Ernst Otto Fischer

W.A. Herrmann ..... 1

**Regular Papers**

Enantioselective catalysis: Part 147. A Rh(cod) complex with the chiral [Pt<sub>2</sub>S<sub>2</sub>{(–)diop}]<sub>2</sub> ligand

H. Brunner, M. Weber, M. Zabel ..... 6

Synthesis, protonation, and electrophilic reactions of Tp'(CO)<sub>2</sub>WCOMe, a tungsten methoxycarbene complex

K.C. Stone, P.S. White, J.L. Templeton ..... 13

Direct preparation of benzylic manganese reagents from benzyl halides, sulfonates, and phosphates and their reactions: applications in organic synthesis

Y.S. Suh, J.-s. Lee, S.-H. Kim, R.D. Rieke ..... 20

CN coupling between μ-aminocarbene and nitrile ligands promoted by tolylacetylide addition to [Fe<sub>2</sub>{μ-CN(Me)(Xyl)}{μ-CO)(CO)(NCCMe<sub>3</sub>)(Cp)<sub>2</sub>}][SO<sub>3</sub>CF<sub>3</sub>]: Formation of a novel bridging η<sup>1</sup>:η<sup>2</sup> allene-diaminocarbene ligand

V.G. Albano, S. Bordoni, L. Busetto, F. Marchetti, M. Monari, V. Zanotti ..... 37

Synthesis, X-ray structure and characterization of a novel [fc(IMH)<sub>2</sub>H]<sup>+</sup>[Co(hfac)<sub>3</sub>]<sup>–</sup> salt with hydrogen bonded ferrocenyl bis(imino hydroxylamino) building blocks

C. Sporer, K. Wurst, D. Ruiz-Molina, H. Kopacka, J. Veciana, P. Jaitner ..... 44

A convenient and efficient procedure for the palladium-catalyzed cyanation of aryl halides using trimethylsilylcyanide

M. Sundermeier, S. Mutyala, A. Zapf, A. Spannenberg, M. Beller ..... 50

Molybdenum alkylidene complexes that contain a 3,3'-di-*t*-butyl-5,5',6,6'-tetramethyl-1,1'-biphenyl-2,2'-diolate ([Biphen]<sup>2–</sup>) ligand

R.R. Schrock, J.Y. Jamieson, J.P. Araujo, P.J. Bonitatebus Jr., A. Sinha, L.P.H. Lopez ..... 56

New coupling reactions for the construction of carbon-rich C<sub>7</sub> bridged di-ruthenium complexes

S. Rigaut, D. Touchard, P.H. Dixneuf ..... 68

Electrochemically generated catalyst system with increased specificity and efficiency for olefin metathesis

B. Düz, K. Pekmez, Y. Imamoğlu, S. Süzer, A. Yıldız ..... 77

Vibrational spectroscopic data of metallocarbyne complexes

N.Q. Dao ..... 82

CH-Aktivierungsreaktionen an substituierten Zirconocenkomplexen und deren Verwendung in der katalytischen Ethylenpolymerisation

A.I. Licht, H.G. Alt ..... 91

Reaction of alkoxy carbene complexes of tungsten with 1,2-dihydroquinoline: single vs. double hydride transfers to the carbene–carbon: synthesis, X-ray structure and reactivity of a quinolinium ylide complex of tungsten pentacarbonyl

H. Rudler, C. Alvarez, B. Denise, A. Parlier, J. Vaissermann ..... 105

Optical properties of transition metal complexes with *N*-heterocyclic carbenes as ligands. 1,3-di-*t*-Butylimidazol-2-ylidene as charge transfer donor and acceptor

H. Kunkely, A. Vogler ..... 113

Isolation and single-crystal X-ray structure analysis of the catalyst–substrate host–guest complexes [C<sub>6</sub>H<sub>6</sub> ⊃ H<sub>3</sub>Ru<sub>3</sub>{C<sub>6</sub>H<sub>5</sub>(CH<sub>2</sub>)<sub>n</sub>OH}(C<sub>6</sub>Me<sub>6</sub>)<sub>2</sub>O]<sup>+</sup> (*n*=2, 3)

L. Vieille-Petit, B. Therrien, G. Süss-Fink, T.R. Ward ..... 117

Mechanism of copper(I)-catalyzed cyclopropanation: a DFT study calibrated with copper(I) alkene complexes B.F. Straub, I. Gruber, F. Rominger, P. Hofmann .....	124
Synthesis and reactivity of dinuclear rhodium complexes with RhCCHR and RhCCRR' units as building blocks B. Callejas-Gaspar, M. Laubender, H. Werner .....	144
Organotransition metal-modified sugars: Part 25. Spiro-C-glycosidation and C <sub>2</sub> -homologization of carbohydrates via Fischer glycosylidene complexes: a strategy to novel organometallic disaccharides and a rare example of atropisomerism W.-C. Haase, M. Nieger, K.H. Dötz .....	153
High diastereoselective Michael and aldol additions of Fischer-type alkyl(hydrazino)carbene complexes: synthesis of new hydrazides E. Licandro, D. Perdicchia, S. Maiorana, C. Baldoli, C. Giannini, C. Graiff, A. Tiripicchio .....	170
A mixed palladium(0) palladium(II) bis-diphosphaferrrocene complex M. Melaimi, L. Ricard, F. Mathey, P. Le Floch .....	189
<i>ortho</i> -Metalation of aromatic ethers by yttrium alkyl complexes that contain a linked amido-cyclopentadienyl ligand T.P. Spaniol, J. Okuda, M. Kitamura, T. Takahashi .....	194
C <sub>s</sub> -symmetric hafnocene complexes for synthesis of syndiotactic polypropene W. Kaminsky, A. Hopf, C. Piel .....	200
Structural features of bridged cyclopentadienyl-fluorenyl based metallocene catalyst: origin of syndiospecificity A. Razavi, V. Bellia, Y. De Brauwer, K. Hortmann, L. Peters, S. Sirole, S. Van Belle, V. Marin, M. Lopez .....	206
Synthesis and reactivity of dinuclear iron–platinum, chromium–platinum, molybdenum–platinum and tungsten–platinum complexes with bridging carbonyl, isocyanide and aminocarbyne ligands. An empirical study on the parameters decisive for the bonding mode of the isocyanide ligand M. Knorr, I. Jourdain, D. Lentz, S. Willemse, C. Strohmann .....	216
Ferrocene-bridged Pd–NCN pincer complexes S. Köcher, G.P.M. van Klink, G. van Koten, H. Lang .....	230
Metal complexes of acyclic diaminocarbenes: links between <i>N</i> -heterocyclic carbene (NHC)- and Fischer-carbene complexes W.A. Herrmann, K. Öfele, D. v. Preysing, E. Herdtweck .....	235
Synthesis and reactivity of air-stable isolable anionic Group 6 molybdenum and tungsten carbene complexes with a metal-centred negative charge F.J. Lalor, S.A. O'Neill .....	249
Improving methodology for the preparation of uracil derivatives from fischer carbene complexes. Microwave activation A. Spinella, T. Caruso, U. Pastore, S. Ricart .....	266
Tetranuclear tungsten cyclooctatetraenyl alkoxides [W <sub>2</sub> COT(OR) <sub>4</sub> ] <sub>2</sub> , where R = Me, Et and Pr M.H. Chisholm, J.C. Gallucci, C.B. Hollandsworth .....	269
Ligand properties of Cp <sup>*</sup> Ga: new examples of Mo–Ga and W–Ga complexes M. Cokoja, T. Steinke, C. Gemel, T. Welzel, M. Winter, K. Merz, R.A. Fischer .....	277
Synthesis, structure, and liquid crystal properties of a series of platinum(II) complexes containing chiral 4-(4-alkoxyphenylethyanyl) phenylisocyanide ligands A. Mayr, S. Wang, K.-K. Cheung, M. Hong .....	287
Cationic carbonylmanganese complexes of the olefinic ligand tri(1-cyclohepta-2,4,6-trienyl)phosphane, P(C <sub>7</sub> H <sub>7</sub> ) <sub>3</sub> M. Herberhold, A. Pfeifer, W. Milius .....	300
Catalysis of the Michael reaction by iron(III): calculations, mechanistic insights and experimental consequences S. Pelzer, T. Kauf, C. van Wüllen, J. Christoffers .....	307
Allenylidene and derived alkynyl complexes of iron(II) with the {FeBr(Et <sub>2</sub> PCH <sub>2</sub> CH <sub>2</sub> PEt <sub>2</sub> ) <sub>2</sub> } <sup>+</sup> centre A.I.F. Venâncio, L.M.D.R.S. Martins, A.J.L. Pombeiro .....	315
Molybdenum alkylidene complexes with linked cycloheptatrienyl–phosphane ligands for potential use in olefin metathesis M. Tamm, B. Dreßel, T. Lügger .....	322

New supramolecular organotin(IV)-copper(I) cyanides containing the unique $\{\text{Cu}_2^I(\mu\text{-CN})_2\}$ building block H. Hanika-Heidl, S.E.-d.H. Etaiw, M.S. Ibrahim, A.S.B. El-din, R.D. Fischer.....	329
$\text{Cl}_4(\text{PhCN})\text{W}(\text{NPh})$ as a single-source MOCVD precursor for deposition of tungsten nitride ( $\text{WN}_x$ ) thin films O.J. Bchir, K.M. Green, M.S. Hlad, T.J. Anderson, B.C. Brooks, C.B. Wilder, D.H. Powell, L. McElwee-White.....	338
The molecular structure of dicyclopentadienylzinc (zincocene) determined by gas electron diffraction and density functional theory calculations: $\eta^5,\eta^5$ , $\eta^3,\eta^3$ or $\eta^5,\eta^1$ coordination of the ligand rings? A. Haaland, S. Samdal, N.V. Tverdova, G.V. Girichev, N.I. Giricheva, S.A. Shlykov, O.G. Garkusha, B.V. Lokshin.....	351
Metal $\pi$ complexes of benzene derivatives: Part 57. <i>p</i> -Phenylenediamine as a sandwich-complex ligand C. Elschenbroich, M. Pietras, K. Harms.....	359
Mono- and binuclear 3-amino cyclobuten-2-one complexes of tungsten—facile migration of pentacarbonylmetal fragments in carbene complexes B. Fuß, B. Weibert, H. Fischer .....	368
2-(3-Ferrocenylpyrazol-1-yl)cyclohexanol: a new building block for ferrocenyl ligands H. Glas, A.-K. Pleier, E. Herdtweck, W.R. Thiel.....	376
Author Index of Volume 684 . . . . .	381
Subject Index of Volume 684 . . . . .	383
Contents of Volume 684 . . . . .	389