

## Publications of Prof. Dr. Albrecht Salzer; RWTH Aachen

- 1) Elektronentransfer-Reaktionen von Dicyclopentadienylnickel und -cobalt mit Triphenylmethylchlorid.  
H.Werner, G.Mattmann, A.Salzer & T.Winkler, *J. Organometal. Chem.*, **25** (1970) 461
- 2) Die Synthese eines ersten Doppel-Sandwich-Komplexes: Das Dinickel-tricyclopentadienyl-Kation  
H.Werner & A.Salzer, *Synth.Inorg.Met.-Org.Chem.*, **2** (1972) 239
- 3) Neue kationische Nickelmonocyclopentadienyl-Komplexe  
A.Salzer & H.Werner, *Synth.Inorg.Met.-Org.Chem.*, **2** (1972) 249
- 4) Ein neuer Weg zu Tripeldeckersandwich-Komplexen  
A.Salzer & H.Werner, *Angew.Chem.*, **84** (1972) 949
- 5) Darstellung und Eigenschaften kationischer Cyclopentadienyl-Diolefin-Nickel-Komplexe  
A.Salzer, T.L.Court & H.Werner, *J.Organometal.Chem.*, **54** (1973) 325
- 6) Preparative results and stereochemical course of the reactions of  $\pi$ -cyclopentadienylnickel-diolefin complexes with the methoxide anion  
G.Parker, A.Salzer & H.Werner, *J.Organometal.Chem.*, **67** (1974) 131
- 7) Röntgenstrukturanalyse des Tripeldeckersandwich-Komplexes Tris( $\eta$ -cyclopentadienyl)dinickel-tetrafluoroborat  
E.Dubler, M.Textor, H.R.Oswald & A.Salzer, *Angew.Chem.*, **86** (1974) 125
- 8) Elektrophile und nukleophile Additionsreaktionen an Siebenringliganden in Tricarbonylmolybdänkomplexen: Synthese von  $[C_7H_9Mo(CO)_3]BF_4$ ,  $C_7H_9Mo(CO)_3Cl$  und  $[C_7H_9P(C_6H_5)_3]BF_4$   
A.Salzer & H.Werner, *J.Organometal.Chem.*, **87** (1975) 101
- 9) Synthese und Eigenschaften von  $\pi$ -Cycloheptadienyl-Wolfram-Komplexen  
A.Salzer & H.Werner, *Z.Anorg.Allg.Chem.*, **418** (1975) 88
- 10) Nucleophilic addition of Lewis Bases to tropylum and homotropylum derivatives of molybdenum and tungsten  
A.Salzer, *Inorg.Chim.Acta*, **17** (1976) 221

- 11) Darstellung und Eigenschaften einiger neuer Triolefin-Komplexe des Molybdäns und Wolframs  
A.Salzer, *J.Organometal.Chem.*, **107** (1976) 79
- 12) The electrophilic reactivity of homotropylium chromium tricarbonyl hexafluorophosphate  
A.Salzer, *Inorg.Chim.Acta*, **18** (1976) L 31
- 13) Neue Cycloolefinkomplexe von Cr, Mo und W: Zur Komplexchemie des Cycloocta-1,3,6-triens  
A.Salzer, *J.Organometal.Chem.*, **117** (1976) 245
- 14) Stereospecific incorporation of  $^{13}\text{CO}$  into olefinic substituted metal carbonyl compounds  
D.J.Darensbourg & A.Salzer, *J.Organometal.Chem.*, **117** (1976) C 90
- 15) Neue Aspekte zur Reaktivität des Tripeldeckersandwichs  $[\text{Ni}_2(\text{C}_5\text{H}_5)_3]^+$  und des Nickelocenium-Kations  $[\text{Ni}(\text{C}_5\text{H}_5)_2]^+$   
H.Werner, B.Ulrich & A.Salzer, *J.Organometal.Chem.*, **141** (1977) 339
- 16) Synthese und thermisches Verhalten neuartiger Cyclooctatrien- und Cyclononatrien-Eisencarbonylkomplexe  
A.Salzer & W.von Philipsborn, *J.Organometal.Chem.*, **161** (1978) 39
- 17) The solution behaviour of unsaturated molybdenum carbonyl species as evidenced via stereospecific  $^{13}\text{CO}$  labelling studies  
D.J.Darensbourg & A.Salzer, *J.Am.Chem.Soc.*, **100** (1978) 4119
- 18) Chemical and electrochemical reduction of cycloheptatriene  $\text{W}(\text{CO})_3$   
N. El Murr, M.Riveccie & A.Salzer, *Inorg.Chim.Acta*, **29** (1978) L 213
- 19) Addition of triphenylphosphine to  $[\text{C}_8\text{H}_{11}\text{CoC}_5\text{H}_5]\text{BF}_4^-$   
L.A.P.Kane-Maguire, P.D.Mouncher & A.Salzer,  
*J.Organometal.Chem.*, **168** (1979) C 42
- 20) Mechanism of attack by trialkylphosphines on dicarbonyl(dienyl)iodo-iron complexes  
M.Gower, G.R.John, L.A.P.Kane-Maguire, T.I.Odiaka & A.Salzer,  
*J.Chem.Soc. (Dalton)*, (1979) 2003

- 21) Stereospecific preparation and reactivity of metal carbonyl complexes of bicyclo-[4.2.1.]nonatrienone and its derivatives  
A.Salzer & W.von Philipsborn, *J.Organometal.Chem.*, **170** (1979) 62
- 22) New Cyclononatetraene cobalt complexes  
A.Salzer & R.Bischof, *Trans.Met.Chem.*, **4** (1979) 254
- 23) The mechanism of formation of cyclopentadienyl cobalt cyclononatetraene  
H.R.Beer, P.Bigler, W.von Philipsborn & A.Salzer,  
*Inorg.Chim.Acta*, **53** (1981) L49
- 24) Structure and reactivity of new cobalt(I) cycloolefin c1. gs  
A.Salzer & P.Bigler, *Inorg.Chim.Acta*, **48** (1981) 199
- 25) Neutral dimetallic complexes with bridging cyclooctatetraene. X-Ray structure of  
 $\mu$ -[1-4:5-8 $\eta$ -cyclooctatetraene]cyclopentadienylcobalttricarbonyl-molybdenum (Co-Mo).  
A.Salzer, T.Egolf, L.Linowsky & W.Petter, *J.Organometal.Chem.*, **221** (1981) 339
- 26) Cationic dimetallic complexes with bridging cyclooctatetraene: Synthesis and flunctional behaviour  
A.Salzer, T.Egolf & W.von Philipsborn, *J.Organometal. Chem.*, **221** (1981) 351
- 27) Dimetallic complexes with bridging seven-membered cycloolefins. Synthesis, multinuclear NMR-spectroscopic properties and structure  
A.Salzer, T.Egolf & W.von Philipsborn, *Helv.Chim.Acta*, **65** (1982) 1145
- 28) Structure and properties of tricarbonyl(2-5:9,10- $\eta$ -9-methylenebicyclo[4.2.1.]-nona-2,4,7-triene)chromium(0). New chromium-olefin stereochemistry  
G.B.Jameson & A.Salzer, *Organometallics*, **1** (1982) 689
- 29) Elektrochemische Oxidation von Decamethylruthenocen  
U.Kölle & A.Salzer, *J.Organometal.Chem.*, **243** (1983) C 27
- 30) Metallorganische Varianten der Wittig-Reaktion: Synthese und Struktur von trans- $\mu$ -(2-5:8-11 $\eta$ -dodecapentaen)bis(tricarbonyleisen)  
A.Hafner, J.H.Bieri, R.Prewo, W.von Philipsborn & A.Salzer, *Angew.Chem.*, **95** (1983) 736

- 31) New synthetic routes to  $\beta$ -olefinic triphenylphosphonium salts via (diolefin)tricarbonyliron complexes  
A.Salzer & A.Hafner, *Helv.Chim.Acta*, **66** (1983) 1774
- 32) EPR study of the electronic structure and dynamic Jahn-Teller effect in nickellicenium cation  
M.V.Rajasekharan, R.Bucher, E.Deiss, L.Zoller, A.Salzer, E.Moser & J.H. Ammeter, *J.Am.Chem.Soc.*, **105** (1983) 7516
- 33) Reaktivität und Selektivität in der Chemie der Diolefin-Metallkomplexe  
A.Salzer, *Chimia*, **38** (1984) 421
- 34) Umsetzungen von Tricarbonyl(sorbinaldehyd)eisen mit Carbanionen: Eine Organometall-Repetierreaktion mit  $\text{Fe}(\text{C}_0)_3$ -Wanderung  
A.Hafner, W.von Philipsborn & A.Salzer, *Angew.Chem.*, **97** (1935) 136
- 35) Neue Wege zu Indenyl-Diolefin Komplexen von Cobalt und Rhodium  
A.Salzer & C.Täschler, *J.Organometal.Chem.*, **294** (1985) 261
- 36) Synthese und Reaktivität von kationischen Cyclopentadienyl-Mangan-Allyl-Komplexen  
B.Buchmann & A.Salzer, *J.Organometal.Chem.*, **295** (1985) 63
- 37) Syntheses and NMR Spectra of Ruthenium(II) ( $\eta^5$ -dienyl)( $\eta^6$ -Arene) compounds. The crystal and molecular structure of Ruthenium(II) ( $\eta^5$ -cyclooctadienyl)( $\eta^6$ -p-toluenesulphonate),  $\text{Ru}(\eta^5\text{-C}_8\text{H}_{11})(\eta^6\text{-C}_7\text{H}_7\text{SO}_3)$   
M.Stebler, A.Salzer, H.Bürgi & A.Ludi, *Organometallics*, **5** (1986) 298
- 38) Electrochemical Generation and Reactions of Radicals derived from  $\text{C}_7$ -polyolefin Complexes of Cobalt  
W.E.Geiger, T.Gennett, G.A.Lane, A.Salzer & A.L.Rheingold, *Organometallics*, **5**, (1986) 1352
- 39) Structural and NMR Spectroscopic Studies of Cyclooctatetraene as Bridging Ligand: Five Different Bonding Modes in Dimetallic Complexes  
J.H.Bieri, T.Egolf, W.von Philipsborn, U.Piantini, R.Prewo, U.Ruppli & A.Salzer, *Organometallics*, **5** (1986) 2413
- 40) *Organometallchemie - eine kurze Einführung*  
Ch. Elschenbroich & A.Salzer, Teubner Verlag, Stuttgart (1986)

- 41) New synthetic Routes to  $\beta$ -olefinic Trialkoxyphosphonium Salts and Phosphonates: Organometallic Variants of the Michaelis-Arbuzov Reaction  
A.Hafner, W.von Philipsborn & A.Salzer, *Helv.Chim.Acta*, **69**, (1986) 1757
- 42) EPR Studies of the Electronic Structure and Dynamic Jahn-Teller Effect in Cobalt(II) Mixed-Sandwich Compounds  
B.L.Ramakrishna, A.Salzer, U.Ruppli, J.H.Ammeter & U.Kölle,  
*Inorg.Chem.*, **25** (1986) 1364
- 43) Interconversion of Conjugated and Nonconjugated Polyolefin-Cobalt Complexes in two oxidation states: An Electrochemical and NMR Study  
W.E.Geiger, T.Genett, M.Grzeszczuk, G.E.Lane, J.Moraczewski, A.Salzer & E.Smith, *J.Am.Chem.Soc.* **108** (1986) 7454
- 44) Protonated Diolefins Complexes: Model Systems for C-H Activation via Metal Complexation  
B.Buchmann, U.Piantini, W.von Philipsborn & A.Salzer, *Helv.Chim.Acta* **70** (1987) 1487
- 45) Electrochemically Induced Reversible Insertion of Ruthenium Atoms into an Eight-Carbon Chain  
J.Edwin, W.E.Geiger, A.Salzer, U.Ruppli & A.L.Rheingold, *J.Am.Chem.Soc.*, **109** (1987) 7893
- 46) *Organometallchemie - eine kurze Einführung* (2., erweiterte Auflage)  
Ch. Elschenbroich & A. Salzer, Teubner Verlag, Stuttgart (1988)
- 47) Kinetics and Mechanism of Addition of tertiary Phosphines and Phosphites to  $[\text{Co}(\text{C}_5\text{H}_5)\eta^5\text{C}_8\text{H}_{11}]^+$  and related Cobalt Cations  
L.A.P.Kane-Maguire, P.D.Mouncher & A.Salzer, *J.Organometal.Chem.* **347** (1988) 383
- 48) Diolefin Iron Complexes - Useful and Versatile Tools in Organic Synthesis  
A.Salzer in H.Werner, G.Erker (Eds): *Organometallics in Organic Synthesis*, Vol. II, Springer Verlag, Berlin (1989)
- 49) *Organometallics - a Concise Introduction*  
Ch.Eschenbroich & A.Salzer, VCH Publishers, Weinheim (1989)

- 50) *Organometallchemie* (3., durchgesehene Auflage)  
Ch. Elschenbroich & A. Salzer, Teubner Verlag, Stuttgart (1990)
- 51) Electrochemically Induced Insertion of Ru-Atoms into a C-C Bond: Reversible Slicing of a Cyclooctatetraene Ligand  
W.E.Geiger, A.Salzer, J.Edwin, W. von Philipsborn, U.Piantini & A.Rheingold,  
*J.Am.Chem.Soc.*, **112** (1990) 7113
- 52) Crystal Structure of the Protonated Pentamethylcyclopentadienyl Rhodium Dimethylbutadiene Complex, a Compound with an Agostic M···H···C Interaction A.Salzer, B.Buchmann & H.Schmalle, *Acta Cryst. C*, **47** (1991) 275
- 53) Iron, Cobalt and Rhodium Complexes of the optically active diolefin (+)nopadiene and its derivatives. The X-ray structure of  $C_5Me_5Rh(\text{nopadiene})$   
A.Salzer, H. Schmalle, R. Stauber & S. Streiff,  
*J.Organometal.Chem.*, **408** (1991) 403
- 54) Wozu braucht man Komplexchemie?  
A. Salzer & H. Berke, *unizürich* **1** (1991)
- 55) A General Route to "Half-Open Metallocenes"  $C_5Me_5Ru(\text{pentadienyl})$  and  $C_5Me_5\text{-Ru}(\text{diene})Cl$  Compounds. The X-Ray Structures of an Optically Active Half-Open Metallocene and a dimetallic Ruthenabenzenene Complex  
H. W. Bosch, U. Hund, D. Nietlispach & A. Salzer,  
*Organometallics*, **11**, (1992) 2087
- 56) *Organometallics - a Concise Introduction*, 2. Edition  
Ch. Elschenbroich & A. Salzer, VCH Publishers, Weinheim (1992)
- 57) Synthese bicyclischer Pentaalkylcyclopentadiene und ihrer Metallkomplexe. Kristallstruktur von Bis(1,2,3-trimethylbicyclo[4.3.0]nonadienyl)eisen  
H. W. Bosch, R. Stauber & A. Salzer, *J. Organometal. Chem.*, **472** (1994) 205
- 58) Vom Tripeldecker zum Metallabenzol: Eine neue Generation von Sandwichkomplexen  
U. Bertling, U. Englert & A. Salzer, *Angew. Chem.*, **106** (1994) 1026

- 59) Rhenium Complexes with the Enantiopure Cyclopentadienyl Ligand PCp: X-Ray Structure of the exo-Isomer of  $S_{Re}\text{-PCpRe(NO)(PPh}_3\text{)CH}_3$   
B. Pfister, U. Englert & A. Salzer, *Organometallics*, **14** (1995), 5561
- 60) A Novel Type of Optically Active Diketonate Ligand and its Rhodium Complex  
U. Englert, M. Käser & A. Salzer. *Inorg. Chem.*, **34** (1995) 6231
- 61) Herrmann/Brauer: *Synthetic Methods of Organometallic and Inorganic Chemistry* (W.A.Herrmann, Ed.); Vol 1: W.A.Herrmann & A. Salzer: *Literature, Laboratory Techniques and Common Starting Materials*  
George Thieme, Stuttgart (1996)
- 62) Rhenium Complexes with the Optically Active Cyclopentadienyl Ligand PCp: X-Ray Structures of the exo- and endo-Isomers of  $\text{PCpRe(CO)}_3$  and of the Derivative  $\text{PCpReNO(PPh}_3\text{)CH}_3$   
W.H.Bosch, U. Englert, B. Pfister, R. Stauber & A. Salzer  
*J. Organometal. Chem.*, **506** (1996) 273
- 63) The Synthesis of optically active ( $\eta^4$ -Aminodiolefin)tricarbonyliron Complexes. Kinetic Resolution of a Chiral Amine by means of an Optically Active Dienyliron Cation  
M. Käser, & A. Salzer, *J. Organometal. Chem.*, **508** (1996) 219
- 64) Nucleophilic Addition of secondary Phosphines to Cationic Dienyl Tricarbonyliron Complexes: A Novel Route to Optically Active Phosphines  
U. Englert, B. Ganter, M. Käser, E. Klinkhammer, T. Wagner & A. Salzer, *Chem. Eur. J.*, **2** (1996) 523
- 65) New Heterodimetallic Cyclopentadienyl Carbonyl Complexes: Crystal structure of  $(\text{C}_5\text{Me}_4\text{Et})\text{W}(\mu\text{-CO})_3\text{Ru}(\text{C}_5\text{Me}_5)$ .  
S. F. Amevor, H.-U. Hund & A. Salzer, *J. Organometal. Chem.*, **520** (1996) 79
- 66) Iron and Ruthenium Complexes with the Optically Active Cyclopentadienyl Ligand PCp: Syntheses and Ligand Exchange Reactions  
B. Pfister, R. Stauber & A. Salzer, *J. Organometal. Chem.*, **533** (1997) 131
- 67) Herrmann/Brauer: *Synthetic Methods of Organometallic and Inorganic Chemistry* ; Vol 8, W.A.Herrmann, *Transition Metals, Part 2*: A. Salzer, M. Käser, A, Hosang, I. Marko, diverse *Synthesevorschriften*, p. 56, 68, 71, 94, Georg Thieme, Stuttgart (1997)

- 68) Verfahren zur Herstellung von Aldehyden  
Patent DE 197 42 907.6 vom 29. 9. 1997, WO 99/16737 vom 8. 4. 1999  
(C. Brasse, A. Salzer, H. Bahrmann)
- 69) Phosphansubstituierte Cobalticiniumsalze, Verfahren zu ihrer Herstellung und Verwendung als Katalysatorbestandteil  
Patent DE 197 42 904.1 vom 29. 9. 1997, WO 99/16776 vom 8. 4. 1999  
(C. Brasse, A. Salzer):
- 70) Der erste homoleptische Metallabenzol-Sandwichkomplex  
U. Englert, F. Podewils, I. Schiffers, A. Salzer, *Angew. Chem.*, **110** (1998) 2196, Int. Ed. Engl. **37** (1998) 2134
- 71) Enantioselective nucleophilic substitution of a dimethylamino group in (*R*)-tricarbonyl[-{(1-dimethylamino)ethyl}- $\eta^6$ -benzene]chromium  
Ulli Englert, Albrecht Salzer, Daniela Vasen, *Tetrahedron: Asymmetry*, **9** (1998) 1867
- 72) Mono- and dimetallic cyclooctatetraene complexes of manganese and rhenium:  
Synthesis, structure and dynamic behaviour  
A. Hosang, U. Englert, A. Lorenz, U. Ruppli, A. Salzer, *J. Organomet. Chem.*, **583** (1999) 47
- 73) Transition-Metal Complexes of the optically active Cyclopentadienyl Ligand PinCp\*: Crystal Structure of (S<sub>Re</sub>)-(η<sup>5</sup>-PinCp\*)Re(NO)(PPh<sub>3</sub>)[CONHCH(CH<sub>3</sub>)-C<sub>10</sub>H<sub>7</sub>]  
A. Salzer, A. Hosang, J. Knuppertz, U. Englert, *Eur. J. Inorg. Chem.* (1999) 1497
- 74) A General Stereoselective Route to α-Chiral (*R*)-Tricarbonyl(η<sup>6</sup>-ethylbenzene)chromium Complexes. Novel Organometallic Phosphine Catalysts for the Asymmetric Hydrovinylation Reaction  
U. Englert, R. Haerter, D. Vasen, A. Salzer, E. Eggeling, D. Vogt, *Organometallics*, **18** (1999) 4390
- 75) Nomenclature of Organometallic Compounds of the Transition Elements (IUPAC Recommendations 1999)  
A. Salzer, *Pure Appl. Chem.*, **71** (1999) 1557

- 76) Difunctional Arene-Chromium-Tricarbonyl Complexes derived from (R)-Phenylethanamine. Easily Accessible Planar-chiral Diphosphines and their Application in Enantioselective Hydrogenation, Hydroamination and Allylic Sulfonation  
D. Vasen, A. Salzer, F. Gerhards, H.-J. Gais, R. Stürmer, N. Bieler, A. Togni, *Organometallics*, **19** (2000) 539
- 77) Phosphaferrocenes containing the chiral pinene-fused cyclopentadienyl ligand PCp  
C. Pala, F. Podewils, A. Salzer, U. Englert, C. Ganter, *Tetrahedron*, **56** (2000) 17
- 78) Regio- and Stereoselective Ring-Opening Reactions of Chiral Substituted Spiro[2,4]hepta-4,6-dienes: A New, Simple, and Versatile Approach to the Synthesis of Optically Active Bidentate Cyclopentadienyl-Phosphine Ligands. X-Ray Crystal Structure of (S)-[Rh( $\eta^2$ C<sub>2</sub>H<sub>4</sub>)( $\eta^5$ -C<sub>5</sub>H<sub>4</sub>CH<sub>2</sub>CHPhPPh<sub>2</sub>- $\kappa$ P)]  
S. Ciruelos, U. Englert, A. Salzer, C. Bolm, A. Maischak, *Organometallics*, **19** (2000) 2240
- 79) Ionic Phosphine Ligands with Cobalticenium-backbone - Novel Ligands for the Highly Selective Piphasic, Rhodium Catalysed Hydroformylation of 1-Octene in Ionic Liquids  
C. Brasse, U. Englert, A. Salzer, H. Waffenschmidt, P. Wasserscheid, *Organometallics*, **19** (2000) 3818
- 80) Herrmann/Brauer: *Synthetic Methods of Organometallic and Inorganic Chemistry* ; Vol 9, W.A.Herrmann, *Transition Metals, Part 3*: A. Salzer, M. Käser, A. Hosang, A. Bauer, U. Effertz, E. Klinkhammer, F. Podewils, diverse Synthesevorschriften, p. 27- 28, 31 - 38, 43 - 52, Georg Thieme, Stuttgart (2000)
- 81) Process for the preparation of ruthenium compounds  
A. Salzer, F. Podewils, S. Geyser, Eur. Patent. Appl. 110429.8-2110
- 82) Efficient Synthesis of Ruthenium(II) $\eta^5$ -Dienyl Compounds starting from Di- $\mu$ -chlorodichloro-bis[1-3 $\eta$ :6-8 $\eta$ ]2,7-dimethyloctadienyl]diruthenium(IV) - versatile precursors for enantioselective hydrogenation catalysts  
A. Bauer, U. Englert, S. Geyser, F. Podewils, A. Salzer, *Organometallics* **19** (2000) 5471
- 83) Nomenklatur metallorganischer Komplexe der Übergangsmetalle  
A. Salzer, *Angew. Chem.*, **114** (2001) 2043

- 84) New optically active "constrained-geometry" cyclopentadienyl-phosphine ligands and their metal complexes  
S. Ciruelos, A. Doppiu, U. Englert, A. Salzer, *J. Organomet. Chem.*, **663** (2002) 183
- 85) The Reaction of Pentadienyl Complexes with Metal Carbonyls: Synthetic, Structural and Theoretical Studies of Metallabenzenene  $\pi$ -Complexes  
U. Englert, T. Wagner, U. Effertz, F. Podewils, A. Salzer, M. Kaupp, *Organometallics*, **22** (2003) 264
- 86) Investigations into the Hydrogenation of Diolefins and prochiral Olefins employing the "Daniphos"-type Ligands  
W. Braun, A. Salzer, H.-J. Drexler, A. Spannenberg, D. Heller, *J. Chem. Soc., Dalton Trans.*, (2003) 1606
- 87) Cationic half-sandwich Ruthenium(II) Complexes with Cyclopentadienyl-Phosphine Ligands  
A. Doppiu, U. Englert, A. Salzer, *Inorg. Chim. Acta*, **350** (2003) 435
- 88) Chiral mono-and bidentate Ligands derived from Chromium Arene Complexes - Synthesis, Structure and Catalytic Applications  
A. Salzer, *Coord. Chem. Rev.*, **242** (2003) 59
- 89) Novel [2+2+1] Cyclotrimerization of Alkynes mediated by Bidentate Cyclopentadienyl-Phosphine Ruthenium Complexes  
E. Becker, K. Mereiter, M. Puchberger, T. R. Schmid, K. Kirchner, A. Doppiu, A. Salzer, *Organometallics*, **22** (2003) 3164
- 90) Optically active Phospholanes as Substituents on Ferrocene and Chromium-Arene complexes; Applications in homogeneous Catalysis  
W. Braun, B. Calmuschi, J. Haberland, W. Hummel, A. Liese, T. Nickel, O. Stelzer, A. Salzer, *Eur. J. Inorg. Chem.*, **11** (2004) 2235
- 91) A new route to Cationic Half-Sandwich Ruthenium(II) Complexes with Chiral Cyclopentadienyl Phosphine Ligands  
A. Doppiu, A. Salzer, *Eur. J. Inorg. Chem.*, **11** (2004) 2244
- 92) Optically-active Iridium complexes with Cyclopentadienyl-Phosphine Ligands. Synthesis and Oxidative Addition of Methyl Iodide  
A. Doppiu, U. Englert, V. Peters, A. Salzer, *Inorg. Chim. Acta*, **357(6)** (2004) 1773

- 93) Synthesis and Characterization of Ru(II), Rh(III) and Ir(III) Complexes of the "Daniphos" ligands and their application in the Hydrogen Transfer Catalysis  
D. Totev, A. Salzer, D. Carmona L. A. Oro, F. J. Lahoz, I. T. Dobrinovitch, *Inorg. Chim. Acta*, **357**(10) (2004), 2889
- 94) Organometallic and coordination complexes. Allyl- and Dienyl complexes of Ruthenium  
A. Salzer, A. Bauer, S. Geyser, F. Podewils, G. C. Turpin, R. D. Ernst, *Inorganic Synthesis*, **Vol. 34** (2004) 59
- 95) Isolation and structural characterization of an optically active intermediate in the oxidative addition of methyl iodide on a rhodium(I) center  
A. Doppiu, U. Englert, A. Salzer, *Chem. Comm.*, **19** (2004) 2166
- 96) (*R,R*)-Tricarbonyl{ $\eta^6$ -1-(diphenylphosphino)-2-[1-(diphenylphosphino)ethyl]benzene}chromium(0), (*R,R*)-tricarbonyl-1 $\kappa^3$ C-{ $\mu$ -1( $\eta^6$ ):2 $\kappa^2$ P,P'-1-(diphenylphosphino)-2-[1-(diphenylphosphino)ethyl]benzene}{[2( $\eta^4$ )-norbornadiene]chromium(0)rhodium(I) tetrafluoroborate methanol 0.75-solvate and (*R,R*)-tricarbonyl-1 $\kappa^3$ C-{ $\mu$ -1( $\eta^6$ ):2 $\kappa^2$ P,P'-1-(diphenylphosphino)-2-[1-(diphenylphosphino)ethyl]benzene}{[2( $\eta^4$ )-(Z,Z)-cycloocta-1,5-diene]chromium(0)rhodium(I) tetrafluoroborate methanol 1.5-solvate  
W. Braun, B. Calmuschi, H.-J. Drexler, U. Englert, D. Heller, A. Salzer, *Acta Crystallogr. Sect. C*, **C60**(10) (2004) m532
- 97) Conformationally Constrained Diphosphines Derived from ( $\eta^6$ -(*S*)-1-(dimethylamino)indane)Cr(CO)<sub>3</sub>: Synthesis and Application in Enantioselective Hydrogenation  
U. Englert, C. Hu, A. Salzer, E. Alberico, *Organometallics*, **23**(23) (2004) 5419
- 98) Chiral diphosphine ligands based on an arene chromium tricarbonyl scaffold: a modular approach to asymmetric hydrogenation  
W. Braun, A. Salzer, F. Spindler, E. Alberico, *Appl. Cat., A: General*, **274**(1-2) (2004) 191
- 99) Tricarbonyl{ $\eta^6$ -(*S,S*)-1-[2-methoxy-3,6-bis(trimethylsilyl)phenyl]-*N,N*-dimethyl-ethylamine}chromium(0)  
W. Braun, B. Calmuschi, D. Totev, A. Salzer, *Acta Crystallogr. Sect. E*, **E61** (2005) m647

100) Highly enantioselective catalytic asymmetric ring opening reaction employing the Daniphos ligand

W. Braun, W. Mueller, B. Calmuschi, A. Salzer, *J. Organomet. Chem.*, **690(5)** (2005)  
1166

101) Tricarbonyl[ $\eta^6$ -(*R*)-1-(phenyl)-*N,N*-dimethylethylmine]chromium(0)

B. Calmuschi, W. Braun, A. Salzer, *Acta Crystallogr. Sect. E*, submitted