

Journal of Molecular Catalysis A: Chemical 196 (2003) 189-192



www.elsevier.com/locate/molcata

Subject index

Allylic alkylation

Facile preparation of chiral *P,N*-hydrazone ligands and their Pd-catalyzed asymmetric allylic alkylations (Mino, T. (196) 13) Synthesis and properties of pentacoordinated phospha derivatives of *iso*-leucinol. A rare example of using of hydrophosphoranes as ligands in asymmetric catalysis (Gavrilov, K.N. (196) 39)

Allylsilanes

New pyridine-derived *N*-oxides as chiral organocatalysts in asymmetric allylation of aldehydes (Malkov, A.V. (196) 179)

Amino alcohols

Heterogeneous catalytic asymmetric aminohydroxylation of olefins using LDH-supported OsO₄ (Choudary, B.M. (196) 151)

Aminohydroxylation

Heterogeneous catalytic asymmetric aminohydroxylation of olefins using LDH-supported OsO $_4$ (Choudary, B.M. (196) 151)

α-Aryl propanoic acids

Palladium-catalysed enantioselective synthesis of Ibuprofen (Acemoglu, L. (196) 3)

Asymmetric bis-alkoxycarbonylation

Enantioselective bis-alkoxycarbonylation of styrene catalyzed by novel chiral dipyridylphosphine cationic palladium(II) complexes (Wang, L. (196) 171)

Asymmetric catalysis

Asymmetric palladium-catalyzed nucleophilic substitution of 1-(2-naphthyl)ethyl acetate by dimethyl malonate anion (Legros, J.-Y. (196) 21)

Preparation of *pseudo-*C₂-symmetric P,S-hybrid ferrocenyl ligand and its application to some asymmetric reactions (Kang, J. (196) 55)

Steric balance within chiral dirhodium(II) carboxamidate catalysts enhances stereoselectivity (Doyle, M.P. (196) 93)

Surface-mediated improvement of enantioselectivity with clayimmobilized copper catalysts (Cornejo, A. (196) 101)

New chiral dinitrogen ligands containing sp²N-sp³N in the enantioselective cyclopropanation of olefins (Ma, J.-A. (196)

N,N- and N,S-ligands for the enantioselective hydrosilylation of acetophenone with iridium catalysts (Karamé, I. (196) 137)

Catalytic asymmetric epoxidation of α,β -unsaturated ketones using polymeric BINOL (Jayaprakash, D. (196) 145)

Heterogeneous catalytic asymmetric aminohydroxylation of olefins using LDH-supported OsO₄ (Choudary, B.M. (196) 151) Highly enantioselective spiro-cyclization of allyl propargyl ethers catalyzed by cationic palladium(II) complexes with a

new type of PN-ligand bearing achiral *gem*-dimethyl oxazoline (Hatano, M. (196) 165)

New pyridine-derived *N*-oxides as chiral organocatalysts in asymmetric allylation of aldehydes (Malkov, A.V. (196) 179)

Asymmetric hydrogenation

Effect of diphosphine ligands on ruthenium catalysed asymmetric hydrogenation of ketones (Subongkoj, S. (196) 125)

Axial chirality

Binaphthalene-templated N,S- and N,P-heterobidentate ligands with an achiral oxazoline pendant. Synthesis and assessment in asymmetric catalysis (Gladiali, S. (196) 27)

Preparation of an optically active bis(diethylphosphino)biphenyl ligand designed for highly reactive catalytic processes (Shibata, T. (196) 117)

Azepine

New chiral dinitrogen ligands containing sp²N-sp³N in the enantioselective cyclopropanation of olefins (Ma, J.-A. (196) 109)

Benzylic nucleophilic substitution

Asymmetric palladium-catalyzed nucleophilic substitution of 1-(2-naphthyl)ethyl acetate by dimethyl malonate anion (Legros, J.-Y. (196) 21)

Binaphthyl oxazoline ligands

Binaphthalene-templated N,S- and N,P-heterobidentate ligands with an achiral oxazoline pendant. Synthesis and assessment in asymmetric catalysis (Gladiali, S. (196) 27)

Bite angles

Effect of diphosphine ligands on ruthenium catalysed asymmetric hydrogenation of ketones (Subongkoj, S. (196) 125)

C-C bond formation

Asymmetric palladium-catalyzed nucleophilic substitution of 1-(2-naphthyl)ethyl acetate by dimethyl malonate anion (Legros, J.-Y. (196) 21)

Chiral diamines

N,N- and N,S-ligands for the enantioselective hydrosilylation of acetophenone with iridium catalysts (Karamé, I. (196) 137)

Chiral diphosphines

Enantioselective bis-alkoxycarbonylation of styrene catalyzed by novel chiral dipyridylphosphine cationic palladium(II) complexes (Wang, L. (196) 171)

Chiral dithioureas

N,N- and N,S-ligands for the enantioselective hydrosilylation of acetophenone with iridium catalysts (Karamé, I. (196) 137)

190 Subject index

Chiral heterobidentate ligands

From 2,3-dihydrofuran to 2,2-dialkyl-2,3-dihydrofurans: new substrates for the intermolecular asymmetric Heck reaction (Kilroy, T.G. (196) 65)

Chiral hydrazone

Facile preparation of chiral *P,N*-hydrazone ligands and their Pdcatalyzed asymmetric allylic alkylations (Mino, T. (196) 13)

Chiral P ligands

Influence of the temperature on the enantioselectivity of the cobalt catalysed homo Diels-Alder reactions (Pardigon, O. (196) 157)

Chloramine-T

Heterogeneous catalytic asymmetric aminohydroxylation of olefins using LDH-supported OsO₄ (Choudary, B.M. (196) 151)

Cinchonidine

Enantioselective hydrogenation of ethyl pyruvate catalyzed by TS-1 supported rhodium nanoclusters (Ma, H. (196) 131)

Clays

Surface-mediated improvement of enantioselectivity with clayimmobilized copper catalysts (Cornejo, A. (196) 101)

Cobalt

Influence of the temperature on the enantioselectivity of the cobalt catalysed homo Diels-Alder reactions (Pardigon, O. (196) 157)

Copper

Progress towards asymmetric intermolecular and intramolecular cyclopropanations using α -nitro- α -diazo carbonyl substrates (Charette, A.B. (196) 83)

Cyclizations

Highly enantioselective spiro-cyclization of allyl propargyl ethers catalyzed by cationic palladium(II) complexes with a new type of PN-ligand bearing achiral *gem*-dimethyl oxazoline (Hatano, M. (196) 165)

Cycloaddition

Influence of the temperature on the enantioselectivity of the cobalt catalysed homo Diels-Alder reactions (Pardigon, O. (196) 157)

Cyclopropanation

Progress towards asymmetric intermolecular and intramolecular cyclopropanations using α -nitro- α -diazo carbonyl substrates (Charette, A.B. (196) 83)

New chiral dinitrogen ligands containing sp²N-sp³N in the enantioselective cyclopropanation of olefins (Ma, J.-A. (196) 109)

Diamines

Effect of diphosphine ligands on ruthenium catalysed asymmetric hydrogenation of ketones (Subongkoj, S. (196) 125)

Diethylphosphino group

Preparation of an optically active bis(diethylphosphino)biphenyl ligand designed for highly reactive catalytic processes (Shibata, T. (196) 117)

Dinitrogen ligand

New chiral dinitrogen ligands containing sp²N–sp³N in the enantioselective cyclopropanation of olefins (Ma, J.-A. (196) 109)

Diphosphines

Effect of diphosphine ligands on ruthenium catalysed asymmetric hydrogenation of ketones (Subongkoj, S. (196) 125)

Dirhodium(II) carboxamidates

Steric balance within chiral dirhodium(II) carboxamidate catalysts enhances stereoselectivity (Doyle, M.P. (196) 93)

Electron-rich phosphine

Preparation of an optically active bis(diethylphosphino)biphenyl ligand designed for highly reactive catalytic processes (Shibata, T. (196) 117)

Elimination

Asymmetric palladium-catalyzed nucleophilic substitution of 1-(2-naphthyl)ethyl acetate by dimethyl malonate anion (Legros, J.-Y. (196) 21)

Enantioselective hydrogenation

Enantioselective hydrogenation of ethyl pyruvate catalyzed by TS-1 supported rhodium nanoclusters (Ma, H. (196) 131)

Enantioselective

Facile preparation of chiral *P,N*-hydrazone ligands and their Pd-catalyzed asymmetric allylic alkylations (Mino, T. (196) 13)

Influence of the temperature on the enantioselectivity of the cobalt catalysed homo Diels-Alder reactions (Pardigon, O. (196) 157)

Enynes

Highly enantioselective spiro-cyclization of allyl propargyl ethers catalyzed by cationic palladium(II) complexes with a new type of PN-ligand bearing achiral *gem*-dimethyl oxazoline (Hatano, M. (196) 165)

Epoxidation

Catalytic asymmetric epoxidation of α,β-unsaturated ketones using polymeric BINOL (Jayaprakash, D. (196) 145)

Ethyl pyruvate

Enantioselective hydrogenation of ethyl pyruvate catalyzed by TS-1 supported rhodium nanoclusters (Ma, H. (196) 131)

Ferrocene

Preparation of *pseudo-*C₂-symmetric P,S-hybrid ferrocenyl ligand and its application to some asymmetric reactions (Kang, J. (196) 55)

Hetero-Diels-Alder cycloaddition

Steric balance within chiral dirhodium(II) carboxamidate catalysts enhances stereoselectivity (Doyle, M.P. (196) 93)

Hydrophosphoranes

Synthesis and properties of pentacoordinated phospha derivatives of *iso*-leucinol. A rare example of using of hydrophosphoranes as ligands in asymmetric catalysis (Gavrilov, K.N. (196) 39)

Ibuprofen

Palladium-catalysed enantioselective synthesis of Ibuprofen (Acemoglu, L. (196) 3)

Imidazolidinone ligands

Steric balance within chiral dirhodium(II) carboxamidate catalysts enhances stereoselectivity (Doyle, M.P. (196) 93)

Immobilization

Surface-mediated improvement of enantioselectivity with clayimmobilized copper catalysts (Cornejo, A. (196) 101) Subject index 191

Intermolecular asymmetric Heck

From 2,3-dihydrofuran to 2,2-dialkyl-2,3-dihydrofurans: new substrates for the intermolecular asymmetric Heck reaction (Kilroy, T.G. (196) 65)

Iridium(I) catalysts

N,N- and N,S-ligands for the enantioselective hydrosilylation of acetophenone with iridium catalysts (Karamé, I. (196) 137)

Isoinversion principle

Influence of the temperature on the enantioselectivity of the cobalt catalysed homo Diels-Alder reactions (Pardigon, O. (196) 157)

Ketone hydrosilylation

N,N- and N,S-ligands for the enantioselective hydrosilylation of acetophenone with iridium catalysts (Karamé, I. (196) 137)

Ketones

Effect of diphosphine ligands on ruthenium catalysed asymmetric hydrogenation of ketones (Subongkoj, S. (196) 125)

Lanthanum and ytterbium complex

Catalytic asymmetric epoxidation of $\alpha,\beta\text{-unsaturated}$ ketones using polymeric BINOL (Jayaprakash, D. (196) 145)

LDH-OsO₄

Heterogeneous catalytic asymmetric aminohydroxylation of olefins using LDH-supported OsO₄ (Choudary, B.M. (196) 151)

Metal carbene reactions

Steric balance within chiral dirhodium(II) carboxamidate catalysts enhances stereoselectivity (Doyle, M.P. (196) 93)

N,X-heterodonor ligands

Binaphthalene-templated N,S- and N,P-heterobidentate ligands with an achiral oxazoline pendant. Synthesis and assessment in asymmetric catalysis (Gladiali, S. (196) 27)

New 2,3-dihydrofuran substrates

From 2,3-dihydrofuran to 2,2-dialkyl-2,3-dihydrofurans: new substrates for the intermolecular asymmetric Heck reaction (Kilroy, T.G. (196) 65)

Nitro cyclopropane carboxylates

Progress towards asymmetric intermolecular and intramolecular cyclopropanations using α -nitro- α -diazo carbonyl substrates (Charette, A.B. (196) 83)

α -Nitro- α -diazo carbonyls

Progress towards asymmetric intermolecular and intramolecular cyclopropanations using α -nitro- α -diazo carbonyl substrates (Charette, A.B. (196) 83)

Optically active diphosphine ligand

Preparation of an optically active bis(diethylphosphino)biphenyl ligand designed for highly reactive catalytic processes (Shibata, T. (196) 117)

Organocatalysts

New pyridine-derived *N*-oxides as chiral organocatalysts in asymmetric allylation of aldehydes (Malkov, A.V. (196) 179)

Oxazoline

New chiral dinitrogen ligands containing sp^2N-sp^3N in the enantioselective cyclopropanation of olefins (Ma, J.-A. (196) 109)

P,S-ligand

Preparation of *pseudo-*C₂-symmetric P,S-hybrid ferrocenyl ligand and its application to some asymmetric reactions (Kang, J. (196) 55)

P-Phos

Enantioselective bis-alkoxycarbonylation of styrene catalyzed by novel chiral dipyridylphosphine cationic palladium(II) complexes (Wang, L. (196) 171)

Palladium complexes

Synthesis and properties of pentacoordinated phospha derivatives of *iso*-leucinol. A rare example of using of hydrophosphoranes as ligands in asymmetric catalysis (Gavrilov, K.N. (196) 39)

Enantioselective bis-alkoxycarbonylation of styrene catalyzed by novel chiral dipyridylphosphine cationic palladium(II) complexes (Wang, L. (196) 171)

Palladium

Facile preparation of chiral *P,N*-hydrazone ligands and their Pd-catalyzed asymmetric allylic alkylations (Mino, T. (196) 13) Asymmetric palladium-catalyzed nucleophilic substitution of 1-(2-naphthyl)ethyl acetate by dimethyl malonate anion (Legros, J.-Y. (196) 21)

Highly enantioselective spiro-cyclization of allyl propargyl ethers catalyzed by cationic palladium(II) complexes with a new type of PN-ligand bearing achiral *gem*-dimethyl oxazoline (Hatano, M. (196) 165)

Palladium-catalysed allylic substitution

Palladium-catalysed enantioselective synthesis of Ibuprofen (Acemoglu, L. (196) 3)

Pd-catalyzed allylic alkylation

Binaphthalene-templated N,S- and N,P-heterobidentate ligands with an achiral oxazoline pendant. Synthesis and assessment in asymmetric catalysis (Gladiali, S. (196) 27)

Phosphanylation

Facile preparation of chiral *P*,*N*-hydrazone ligands and their Pd-catalyzed asymmetric allylic alkylations (Mino, T. (196) 13)

Planar chirality

Preparation of $\it pseudo-C_2-symmetric P,S-hybrid ferrocenyl ligand and its application to some asymmetric reactions (Kang, J. (196) 55)$

PN-ligands

Highly enantioselective spiro-cyclization of allyl propargyl ethers catalyzed by cationic palladium(II) complexes with a new type of PN-ligand bearing achiral *gem*-dimethyl oxazoline (Hatano, M. (196) 165)

Polymeric BINOL ligands

Catalytic asymmetric epoxidation of α,β -unsaturated ketones using polymeric BINOL (Jayaprakash, D. (196) 145)

Pseudo-C2 symmetry

Preparation of *pseudo-*C₂-symmetric P,S-hybrid ferrocenyl ligand and its application to some asymmetric reactions (Kang, J. (196) 55)

Pyridine N-oxide

New pyridine-derived N-oxides as chiral organocatalysts in asymmetric allylation of aldehydes (Malkov, A.V. (196) 179)

Quinine

Enantioselective hydrogenation of ethyl pyruvate catalyzed by TS-1 supported rhodium nanoclusters (Ma, H. (196) 131)

192 Subject index

Rh(I) complexes

Binaphthalene-templated N,S- and N,P-heterobidentate ligands with an achiral oxazoline pendant. Synthesis and assessment in asymmetric catalysis (Gladiali, S. (196) 27)

Rh-catalyzed asymmetric hydrogenation

Preparation of an optically active bis(diethylphosphino)biphenyl ligand designed for highly reactive catalytic processes (Shibata, T. (196) 117)

Rhodium

Progress towards asymmetric intermolecular and intramolecular cyclopropanations using α -nitro- α -diazo carbonyl substrates (Charette, A.B. (196) 83)

Ruthenium catalysts

Effect of diphosphine ligands on ruthenium catalysed asymmetric hydrogenation of ketones (Subongkoj, S. (196) 125)

Solvent effects

Surface-mediated improvement of enantioselectivity with clayimmobilized copper catalysts (Cornejo, A. (196) 101)

Spiro

Highly enantioselective spiro-cyclization of allyl propargyl ethers catalyzed by cationic palladium(II) complexes with a new type of PN-ligand bearing achiral *gem*-dimethyl oxazoline (Hatano, M. (196) 165)

Supported catalysts

Surface-mediated improvement of enantioselectivity with clayimmobilized copper catalysts (Cornejo, A. (196) 101)

Supported rhodium nanoclusters

Enantioselective hydrogenation of ethyl pyruvate catalyzed by TS-1 supported rhodium nanoclusters (Ma, H. (196) 131)