

Subject Index of Volume 624

- Acetylenic lactams
Palladium catalyzed cyclization reactions of acetylenic lactams, 245
- Acylsilanes
Stereoselective addition of organomanganese reagents to chiral acylsilanes and aldehydes, 224
- Addition
A highly efficient and practical preparation of 2,4-pentadienyltitaniums and their γ -selective addition reaction with aldehydes and ketones, 152
Stereoselective addition of organomanganese reagents to chiral acylsilanes and aldehydes, 224
- Addition reaction
Direct use of chiral or achiral organophosphorus boranes as pro-ligands for transition metal catalyzed reactions, 334
- Addition to aldehydes
New preparation of benzylic zinc reagents via a fragmentation reaction, 89
- Alcohols
Cross-metathesis reaction. Generation of highly functionalized olefins from unsaturated alcohols, 328
Neutral, non-racemising, catalytic aerobic oxidation of alcohols, 345
Oxidation of organometallic compounds (RM, M = Li, MgBr, ZnBr, CuCNLi, Cu(R)CNLi₂) with ^tBuOOLi, Ti(OⁱPr)₄-mediated with ^tBuOOH, and with O₂, to give alcohols (ROH). Are radicals R^{*} involved?, 48
- Aldehyde
A highly efficient and practical preparation of 2,4-pentadienyltitaniums and their γ -selective addition reaction with aldehydes and ketones, 152
- Aldehydes
Synthesis of novel 1,1'-bis(oxazolonyl)metallocenes and their application in the asymmetric phenyl transfer from organozincs to aldehydes, 158
- Aldopentoses
Reactivity of γ -benzyloxyallyltins with cyclohexylidene glyceraldehydes, 384
- Alkenes
Cross-coupling of vinylpolysiloxanes with aryl iodides, 373
- Alkylation
Alkylation of nitroarenes with Grignard reagents via oxidative nucleophilic substitution of hydrogen, 168
- Alkylative reduction
Carbon–carbon bond formation via oxidative-addition processes of titanium(II) reagents with π -bonded organic substrates. Reactivity modifications by Lewis acids and Lewis bases: Part 2. Organic chemistry of subvalent transition metal complexes, 230
- Alkylzirconocene complexes
Regioselective alkylzirconation of internal alkynes, 144
- Alkynes
Silyl-cupration of a propargylsilane as a test for the reversibility of a metallo-metallation, 70
Synthesis and structure analysis of tricarbonyl[tetrakis(1'-methylcyclopropyl)cyclobutadiene]iron(0), 111
- Allenylsilane
Silyl-cupration of a propargylsilane as a test for the reversibility of a metallo-metallation, 70
- Allylation
Direct use of chiral or achiral organophosphorus boranes as pro-ligands for transition metal catalyzed reactions, 334
- Allylboration
Asymmetric allylboration for the synthesis of β -hydroxy- δ -lactone unit of statin drug analogs, 240
- Allyl complexes
Rate and mechanism of the reversible formation of a cationic (η^3 -allyl)palladium(II) complex in the oxidative addition of allylic acetate to a palladium(0) complex ligated by diop: an unusual behavior, 218
- Allylic acetates
Transition-metal catalyzed synthesis of δ -hydroxy- γ -lactones from bis(trimethylsilyl) ketene acetals and allylic acetates via γ -unsaturated carboxylic acids. Comments on the formation of α -cyclopropyl carboxylic acids, 187
- Allylic stannanes
The BF₃ and B(C₆F₅)₃-catalyzed 1,3-isomerization of allylic stannanes, 295
- Allyllithium
Generation of allylic and benzylic organolithium compounds by fluorine–lithium exchange: reaction with electrophiles, 54
- Allylsilane
Cross-metathesis reaction. Generation of highly functionalized olefins from unsaturated alcohols, 328
- Allylstannane
Highly diastereoselective desymmetrizing intramolecular cyclization of allylstannane with a diketone promoted by Lewis acid or transition metal complex, 137
- Allylstannation
Reactivity of γ -benzyloxyallyltins with cyclohexylidene glyceraldehydes, 384
- Amino enynes
Weakly ligated palladium complexes PdCl₂(RCN)₂ in piperidine: versatile catalysts for Sonogashira reaction of vinyl chlorides at room temperature, 115
- Amino vinyl chlorides
Weakly ligated palladium complexes PdCl₂(RCN)₂ in piperidine: versatile catalysts for Sonogashira reaction of vinyl chlorides at room temperature, 115
- Arenetricarbonylchromium complexes
Bimetallic π -conjugated complexes modulated by a carbonyl spacer: synthesis of arenetricarbonylchromium–ferrocene derivatives, 125
- Arene–tricarbonyl complexes
Contra-intuitive stereocontrol: *endo*-selective nucleophilic additions on an arene–tricarbonylchromium template, 18
- Arylation
Versatile palladium-catalyzed arylation of organomanganese chlorides by aryl bromides, 377
- Aryl bromides
Versatile palladium-catalyzed arylation of organomanganese chlorides by aryl bromides, 377
- Asymmetric hydrogenation
Chiral 1,2-bis(phosphetano)ethanes, 163

Asymmetric induction

Stereoselective addition of organomanganese reagents to chiral acylsilanes and aldehydes, 224

Asymmetric phenyl transfer

Synthesis of novel 1,1'-bis(oxazolonyl)metallocenes and their application in the asymmetric phenyl transfer from organozincs to aldehydes, 158

Asymmetric ring opening

Rhodium-catalysed asymmetric ring opening of oxabicyclic alkenes with heteroatom nucleophiles, 260

Asymmetric synthesis

Asymmetric allylboration for the synthesis of β -hydroxy- δ -lactone unit of statin drug analogs, 240

Carbon nucleophile addition to sp^2 -unsaturated Fischer carbene complexes, 5

Chiral platinum and palladium complexes containing functionalized C_2 -symmetric bisaminoaryl 'Pincer' ligands, 272

Direct use of chiral or achiral organophosphorus boranes as pro-ligands for transition metal catalyzed reactions, 334

Benzylic Grignard reagents

Studies on regioselective addition of benzylic organometallics to α -oxoketene dithioacetals in our aromatic annelation protocol, 34

Benzylic organometallics

New preparation of benzylic zinc reagents via a fragmentation reaction, 89

Benzylolithium

Generation of allylic and benzylic organolithium compounds by fluorine–lithium exchange: reaction with electrophiles, 54

Benzyloxyallyltributyltins

Reactivity of γ -benzyloxyallyltins with cyclohexylidene glyceraldehydes, 384

Bis-dithioacetals

$W(CO)_6$ -Mediated desulfurooligomerization of bis-dithioacetals. New synthesis of substituted oligo(phenylene–vinylenes), 64

1,1'-bis(Oxazolonyl)metallocenes

Synthesis of novel 1,1'-bis(oxazolonyl)metallocenes and their application in the asymmetric phenyl transfer from organozincs to aldehydes, 158

bis(*p*-Nitrophenyl)phosphate

A single-strand polymer of hexacoordinated zinc(II) phosphodiester complex, 59

bis(trimethylsilyl)ketene acetals

Transition-metal catalyzed synthesis of δ -hydroxy- γ -lactones from bis(trimethylsilyl) ketene acetals and allylic acetates via γ -unsaturated carboxylic acids. Comments on the formation of α -cyclopropyl carboxylic acids, 187

Carbohydrates

Organotransition metal modified sugars: Part 22. Direct metalation of glycals: short and efficient routes to diversely protected stannylated glycals, 173

Carbometallation

Synthesis of substituted cyclopropanone acetals by carbometallation and its oxidative cleavage with manganese(IV) oxide and lead(IV) oxide, 301

Carbon nucleophilic addition

Carbon nucleophile addition to sp^2 -unsaturated Fischer carbene complexes, 5

Carbonyl compounds

On the evolution of organozinc carbenoid chemistry from carbonyl compounds — a personal account, 42

Carbonyl derivatives

Neutral, non-racemising, catalytic aerobic oxidation of alcohols, 345

Carbonyl spacer

Bimetallic π -conjugated complexes modulated by a carbonyl spacer: synthesis of arenetricarbonylchromium–ferrocene derivatives, 125

Catalysis

Direct use of chiral or achiral organophosphorus boranes as pro-ligands for transition metal catalyzed reactions, 334

Catalytic aerobic oxidation

Neutral, non-racemising, catalytic aerobic oxidation of alcohols, 345

Catalytic reaction

The rhodium-catalyzed Pauson–Khand reaction, 74

C-glycosidation

Organotransition metal modified sugars: Part 22. Direct metalation of glycals: short and efficient routes to diversely protected stannylated glycals, 173

Chiral carbanions

Synthesis of enantioenriched indene-derived bicyclic alcohols and tricyclic cyclopropanes via (–)-sparteine-mediated lithiation of a racemic precursor and kinetic resolution during the cyclocarbolithiation, 97

Chiral stannanes

The BF_3 and $B(C_6F_5)_3$ -catalyzed 1,3-isomerization of allylic stannanes, 295

Claisen–Schmidt

Bimetallic π -conjugated complexes modulated by a carbonyl spacer: synthesis of arenetricarbonylchromium–ferrocene derivatives, 125

Condensed aromatics

Studies on regioselective addition of benzylic organometallics to α -oxoketene dithioacetals in our aromatic annelation protocol, 34

Copper

Weakly ligated palladium complexes $PdCl_2(RCN)_2$ in piperidine: versatile catalysts for Sonogashira reaction of vinyl chlorides at room temperature, 115

Copper catalysts

Direct use of chiral or achiral organophosphorus boranes as pro-ligands for transition metal catalyzed reactions, 334

Copper hydride

Hydrosilylation of aldehydes and ketones catalyzed by $[Ph_3P(CuH)]_6$, 368

Cross-coupling

Cross-coupling of vinylpolysiloxanes with aryl iodides, 373

Cross-coupling reaction

Solid phase cross-coupling reaction of aryl(halo)silanes with 4-iodobenzoic acid, 209

Cross-coupling reactions

Versatile palladium-catalyzed arylation of organomanganese chlorides by aryl bromides, 377

Cross-metathesis

Cross-metathesis reaction. Generation of highly functionalized olefins from unsaturated alcohols, 328

Crystal structures

Self-organization of a rigid α,ω -bis-silanediol determined by X-ray crystal structure, 355

Cyclization reactions

Palladium catalyzed cyclization reactions of acetylenic lactams, 245

Cycloaddition

Synthesis and structure analysis of tricarbonyl[tetrakis(1'-methylcyclopropyl)cyclobutadiene]iron(0), 111

Cyclobutadienes

Synthesis and structure analysis of tricarbonyl[tetrakis(1'-methylcyclopropyl)cyclobutadiene]iron(0), 111

- Cyclocarbolithiation
Synthesis of enantioenriched indene-derived bicyclic alcohols and tricyclic cyclopropanes via (–)-sparteine-mediated lithiation of a racemic precursor and kinetic resolution during the cyclocarbolithiation, 97
- Cyclohexylidene glycerinaldehyde
Reactivity of γ -benzyloxyallyltins with cyclohexylidene glycerinaldehydes, 384
- Cyclopentenone
The rhodium-catalyzed Pauson–Khand reaction, 74
- Cyclopropane
Synthesis of substituted cyclopropanone acetals by carbometallation and its oxidative cleavage with manganese(IV) oxide and lead(IV) oxide, 301
- α -Cyclopropyl carboxylic acids
Transition-metal catalyzed synthesis of δ -hydroxy- γ -lactones from bis(trimethylsilyl) ketene acetals and allylic acetates via γ -unsaturated carboxylic acids. Comments on the formation of α -cyclopropyl carboxylic acids, 187
- (–)-Dendrobine
A short synthesis of (–)-dendrobine. Some observations on the nickel mediated radical cyclisation and on the Pauson–Khand reaction, 317
- Desulfurooligomerization
W(CO)₆-Mediated desulfurooligomerization of bis-dithioacetals. New synthesis of substituted oligo(phenylene–vinylenes), 64
- Desymmetrizing cyclization
Highly diastereoselective desymmetrizing intramolecular cyclization of allylstannane with a diketone promoted by Lewis acid or transition metal complex, 137
- Dialkoxysilanes
Self-organization of a rigid α,ω -bis-silanediol determined by X-ray crystal structure, 355
- Dialkyltin oxide
Synthesis and characterization of organotin triflate clusters, 288
- Diels–Alder reactions
Scandium perfluoroalkanesulfonate-catalyzed Diels–Alder reactions in an organic solvent, 393
- Dienes
Nickel-catalyzed three-component connection reaction of a phenyl group, conjugated dienes, and aldehydes: stereoselective synthesis of (*E*)-5-phenyl-3-penten-1-ols and (*E*)-3-methyl-5-phenyl-3-penten-1-ols, 349
- Diketone
Highly diastereoselective desymmetrizing intramolecular cyclization of allylstannane with a diketone promoted by Lewis acid or transition metal complex, 137
- Electron-deficient olefins
Cross-metathesis reaction. Generation of highly functionalized olefins from unsaturated alcohols, 328
- Electrophilic halogenation
Controlled monohalogenation of phosphonates: Part IV. Selective synthesis of monohalogenomethylenediphosphonates, 204
- Enantioselective synthesis
1,4-Bis(arylsulfonyl)dihydropyridines in synthesis. Enantioselective synthesis of 2,3,6-trisubstituted piperidines, 381
- Endo-selectivity
Contra-intuitive stereocontrol: *endo*-selective nucleophilic additions on an arene–tricarbonylchromium template, 18
- Epoxidation
Asymmetric allylboration for the synthesis of β -hydroxy- δ -lactone unit of statin drug analogs, 240
- E* vinyl bromides
Iron catalyzed hydrodebromination of 2-aryl-1,1-dibromo-1-alkenes, 132
- Ferrocene
Bimetallic π -conjugated complexes modulated by a carbonyl spacer: synthesis of arenetricarbonylchromium–ferrocene derivatives, 125
- Fischer carbene complexes
Carbon nucleophile addition to sp^2 -unsaturated Fischer carbene complexes, 5
- Fluoro–lithium exchange
Generation of allylic and benzylic organolithium compounds by fluorine–lithium exchange: reaction with electrophiles, 54
- Fragmentation
New preparation of benzylic zinc reagents via a fragmentation reaction, 89
- Glycols
Organotransition metal modified sugars: Part 22. Direct metalation of glycols: short and efficient routes to diversely protected stannylated glycols, 173
- Grignard reagents
Alkylation of nitroarenes with Grignard reagents via oxidative nucleophilic substitution of hydrogen, 168
Iron catalyzed hydrodebromination of 2-aryl-1,1-dibromo-1-alkenes, 132
- Grubbs' ruthenium catalyst
Synthesis of (–)-coniine and (–)-pipecoline using ruthenium catalyzed ring closing metathesis, 360
- Halogenomethylenediphosphonate
Controlled monohalogenation of phosphonates: Part IV. Selective synthesis of monohalogenomethylenediphosphonates, 204
- Heteroatom nucleophiles
Rhodium-catalyzed asymmetric ring opening of oxabicyclic alkenes with heteroatom nucleophiles, 260
- ¹H-NMR
Reactivity of lithium diphenylphosphonium diylides towards phosphorus electrophiles: Synthesis of α,β -unsaturated phosphorus compounds, 308
- Homogeneous catalysis
Chiral platinum and palladium complexes containing functionalized C₂-symmetric bisaminoaryl 'Pincer' ligands, 272
- Hydrodebromination
Iron catalyzed hydrodebromination of 2-aryl-1,1-dibromo-1-alkenes, 132
- Hydrogenation
Direct use of chiral or achiral organophosphorus boranes as pro-ligands for transition metal catalyzed reactions, 334
- Hydrogen bonding
Self-organization of a rigid α,ω -bis-silanediol determined by X-ray crystal structure, 355
- Hydrolysis
Self-organization of a rigid α,ω -bis-silanediol determined by X-ray crystal structure, 355
- Hydrosilylation
Hydrosilylation of aldehydes and ketones catalyzed by [Ph₃P(CuH)]₆, 368
- Internal alkynes
Regioselective alkylzirconation of internal alkynes, 144
- Ion pairing
TRISPHAT salts. Efficient NMR chiral shift and resolving agents for substituted cyclometallated ruthenium bis(diimine) complexes, 389

Iron complexes

Synthesis and structure analysis of tricarbonyl[tetrakis(1'-methylcyclopropyl)cyclobutadiene]iron(0), 111

1,3-Isomerization

The BF_3 and $\text{B}(\text{C}_6\text{F}_5)_3$ -catalyzed 1,3-isomerization of allylic stannanes, 295

Ketone

A highly efficient and practical preparation of 2,4-pentadienyltitaniums and their γ -selective addition reaction with aldehydes and ketones, 152

Kinetic resolution

Synthesis of enantioenriched indene-derived bicyclic alcohols and tricyclic cyclopropanes via (–)-sparteine-mediated lithiation of a racemic precursor and kinetic resolution during the cyclocarbolithiation, 97

Kinetics

Rate and mechanism of the reversible formation of a cationic (η^3 -allyl)palladium(II) complex in the oxidative addition of allylic acetate to a palladium(0) complex ligated by diop: an unusual behavior, 218

Lactones

Transition-metal catalyzed synthesis of δ -hydroxy- γ -lactones from bis(trimethylsilyl) ketene acetals and allylic acetates via γ -unsaturated carboxylic acids. Comments on the formation of α -cyclopropyl carboxylic acids, 187

Lead dioxide

Synthesis of substituted cyclopropanone acetals by carbometallation and its oxidative cleavage with manganese(IV) oxide and lead(IV) oxide, 301

Lewis acid

Highly diastereoselective desymmetrizing intramolecular cyclization of allylstannane with a diketone promoted by Lewis acid or transition metal complex, 137

Lewis acids and bases

Carbon–carbon bond formation via oxidative-addition processes of titanium(II) reagents with π -bonded organic substrates. Reactivity modifications by Lewis acids and Lewis bases: Part 22. Organic chemistry of subvalent transition metal complexes, 230

Ligand tuning

Chiral platinum and palladium complexes containing functionalized C_2 -symmetric bisaminoaryl 'Pincer' ligands, 272

Lithiated alkyl carbamates

Synthesis of enantioenriched indene-derived bicyclic alcohols and tricyclic cyclopropanes via (–)-sparteine-mediated lithiation of a racemic precursor and kinetic resolution during the cyclocarbolithiation, 97

Lithiation

Generation of allylic and benzylic organolithium compounds by fluorine–lithium exchange: reaction with electrophiles, 54

Lithium diisopropylamide (LDA)

A new approach to β -functional phospholes. Application to the synthesis of a β - CH_2 - CH_2 -bridged diphosphole disulphide, 106

Manganese dioxide

Synthesis of substituted cyclopropanone acetals by carbometallation and its oxidative cleavage with manganese(IV) oxide and lead(IV) oxide, 301

Metallated ylide

Reactivity of lithium diphenylphosphonium diylides towards phosphorus electrophiles: Synthesis of α,β -unsaturated phosphorus compounds, 308

Metallo-metallation

Silyl-cupration of a propargylsilane as a test for the reversibility of a metallo-metallation, 70

Metathesis

Asymmetric allylboration for the synthesis of β -hydroxy- δ -lactone unit of statin drug analogs, 240

Methyltrioxorhenium

Transition-metal catalyzed synthesis of δ -hydroxy- γ -lactones from bis(trimethylsilyl) ketene acetals and allylic acetates via γ -unsaturated carboxylic acids. Comments on the formation of α -cyclopropyl carboxylic acids, 187

Multi-component connection

Nickel-catalysed three-component connection reaction of a phenyl group, conjugated dienes, and aldehydes: stereoselective synthesis of (*E*)-5-phenyl-3-penten-1-ols and (*E*)-3-methyl-5-phenyl-3-penten-1-ols, 349

Naphthoannulation

Studies on regioselective addition of benzylic organometallics to α -oxoketene dithioacetals in our aromatic annulation protocol, 34

Nickel

Nickel-catalysed three-component connection reaction of a phenyl group, conjugated dienes, and aldehydes: stereoselective synthesis of (*E*)-5-phenyl-3-penten-1-ols and (*E*)-3-methyl-5-phenyl-3-penten-1-ols, 349

Nickel metal

A short synthesis of (–)-dendrobine. Some observations on the nickel mediated radical cyclisation and on the Pauson–Khand reaction, 317

Nitro compounds

Alkylation of nitroarenes with Grignard reagents via oxidative nucleophilic substitution of hydrogen, 168

Nitrogen centred radical

A short synthesis of (–)-dendrobine. Some observations on the nickel mediated radical cyclisation and on the Pauson–Khand reaction, 317

NLO

Bimetallic π -conjugated complexes modulated by a carbonyl spacer: synthesis of arenetricarbonylchromium–ferrocene derivatives, 125

NMR enantiomeric purity determination

TRISPHAT salts. Efficient NMR chiral shift and resolving agents for substituted cyclometallated ruthenium bis(diimine) complexes, 389

Oligophenylenevinylenes (OPVs)

$\text{W}(\text{CO})_6$ -Mediated desulfurooligomerization of bis-dithioacetals. New synthesis of substituted oligo(phenylene–vinylenes), 64

Organoboranes

Nickel-catalysed three-component connection reaction of a phenyl group, conjugated dienes, and aldehydes: stereoselective synthesis of (*E*)-5-phenyl-3-penten-1-ols and (*E*)-3-methyl-5-phenyl-3-penten-1-ols, 349

Organocerium

On the steric course of transmetallations on enantiomerically defined α -carbamoxyloxy organolithiums, 365

Organolithium

1,4-Bis(arylsulfonyl)dihydropyridines in synthesis. Enantioselective synthesis of 2,3,6-trisubstituted piperidines, 381

Organomanganese

Stereoselective addition of organomanganese reagents to chiral acylsilanes and aldehydes, 224

Organomanganese reagents

Versatile palladium-catalyzed arylation of organomanganese chlorides by aryl bromides, 377

Organometallic compounds

Oxidation of organometallic compounds (RM, M = Li, MgBr, ZnBr, CuCNLi, Cu(R)CNLi₂) with ^tBuOOLi, Ti(OⁱPr)₄-mediated with ^tBuOOH, and with O₂, to give alcohols (ROH). Are radicals R[•] involved?, 48

Organostannanes

Organotransition metal modified sugars: Part 22. Direct metalation of glycals: short and efficient routes to diversely protected stannylated glycals, 173

Organotin triflate clusters

Synthesis and characterization of organotin triflate clusters, 288

Organozinc

On the steric course of transmetalations on enantiomerically defined α -carbamoyloxy organolithiums, 365

Organozinc carbenoid chemistry

On the evolution of organozinc carbenoid chemistry from carbonyl compounds — a personal account, 42

Organozincs

Nickel-catalysed three-component connection reaction of a phenyl group, conjugated dienes, and aldehydes: stereoselective synthesis of (*E*)-5-phenyl-3-penten-1-ols and (*E*)-3-methyl-5-phenyl-3-penten-1-ols, 349

Synthesis of novel 1,1'-bis(oxazoliny)metallocenes and their application in the asymmetric phenyl transfer from organozincs to aldehydes, 158

Oxabenzonorbornadienes

Rhodium-catalysed asymmetric ring opening of oxabicyclic alkenes with heteroatom nucleophiles, 260

Oxidation

Alkylation of nitroarenes with Grignard reagents via oxidative nucleophilic substitution of hydrogen, 168

Synthesis of substituted cyclopropanone acetals by carbometallation and its oxidative cleavage with manganese(IV) oxide and lead(IV) oxide, 301

Oxidations

Oxidation of organometallic compounds (RM, M = Li, MgBr, ZnBr, CuCNLi, Cu(R)CNLi₂) with ^tBuOOLi, Ti(OⁱPr)₄-mediated with ^tBuOOH, and with O₂, to give alcohols (ROH). Are radicals R[•] involved?, 48

Oxidative addition

Rate and mechanism of the reversible formation of a cationic (η^3 -allyl)palladium(II) complex in the oxidative addition of allylic acetate to a palladium(0) complex ligated by diop: an unusual behavior, 218

Oxidative-addition processes

Carbon-carbon bond formation via oxidative-addition processes of titanium(II) reagents with π -bonded organic substrates. Reactivity modifications by Lewis acids and Lewis bases: Part 22. Organic chemistry of subvalent transition metal complexes, 230

 α -Oxoketene dithioacetals

Studies on regioselective addition of benzylic organometallics to α -oxoketene dithioacetals in our aromatic annelation protocol, 34

Oxydative nucleophilic substitution of hydrogen

Alkylation of nitroarenes with Grignard reagents via oxidative nucleophilic substitution of hydrogen, 168

Palladium

Palladium catalyzed cyclization reactions of acetylenic lactams, 245

Rate and mechanism of the reversible formation of a cationic (η^3 -allyl)palladium(II) complex in the oxidative addition of allylic acetate to a palladium(0) complex ligated by diop: an unusual behavior, 218

Transition-metal catalyzed synthesis of δ -hydroxy- γ -lactones from bis(trimethylsilyl) ketene acetals and allylic acetates via

γ -unsaturated carboxylic acids. Comments on the formation of α -cyclopropyl carboxylic acids, 187

Weakly ligated palladium complexes PdCl₂(RCN)₂ in piperidine: versatile catalysts for Sonogashira reaction of vinyl chlorides at room temperature, 115

Palladium catalysis

Cross-coupling of vinylpolysiloxanes with aryl iodides, 373

Palladium catalysts

Direct use of chiral or achiral organophosphorus boranes as pro-ligands for transition metal catalyzed reactions, 334

Pauson-Khand reaction

A short synthesis of (–)-dendrobine. Some observations on the nickel mediated radical cyclisation and on the Pauson-Khand reaction, 317

The rhodium-catalyzed Pauson-Khand reaction, 74

Pd

Solid phase cross-coupling reaction of aryl(halo)silanes with 4-iodobenzoic acid, 209

1-(Penta-1,4-dien-3-yl)alkanol

A highly efficient and practical preparation of 2,4-pentadienylyltitaniums and their γ -selective addition reaction with aldehydes and ketones, 152

2,4-Pentadienylylmetal

A highly efficient and practical preparation of 2,4-pentadienylyltitaniums and their γ -selective addition reaction with aldehydes and ketones, 152

Phenomena

On the steric course of transmetalations on enantiomerically defined α -carbamoyloxy organolithiums, 365

Phosphetanes

Chiral 1,2-bis(phosphetano)ethanes, 163

Phosphine boranes

Direct use of chiral or achiral organophosphorus boranes as pro-ligands for transition metal catalyzed reactions, 334

Phosphine X-ray structure

Reactivity of lithium diphenylphosphonium diylides towards phosphorus electrophiles: Synthesis of α,β -unsaturated phosphorus compounds, 308

Phosphole

A new approach to β -functional phospholes. Application to the synthesis of a β -CH₂-CH₂-bridged diphosphole disulphide, 106

Phosphonate

Controlled monohalogenation of phosphonates: Part IV. Selective synthesis of monohalogenomethylenediphosphonates, 204

Phosphonium diylide

Reactivity of lithium diphenylphosphonium diylides towards phosphorus electrophiles: Synthesis of α,β -unsaturated phosphorus compounds, 308

Pincer N ligand

Chiral platinum and palladium complexes containing functionalized C₂-symmetric bisaminoaryl 'Pincer' ligands, 272

Piperidine alkaloids

Synthesis of (–)-coniine and (–)-pipercoline using ruthenium catalyzed ring closing metathesis, 360

Platinum

Chiral platinum and palladium complexes containing functionalized C₂-symmetric bisaminoaryl 'Pincer' ligands, 272

P,P ligand

Rate and mechanism of the reversible formation of a cationic (η^3 -allyl)palladium(II) complex in the oxidative addition of allylic acetate to a palladium(0) complex ligated by diop: an unusual behavior, 218

Propargylsilane

Silyl-cupration of a propargylsilane as a test for the reversibility of a metallo-metallation, 70

Radical cyclisation

A short synthesis of (–)-dendrobine. Some observations on the nickel mediated radical cyclisation and on the Pauson–Khand reaction, 317

Rare earth metal triflates

Scandium perfluoroalkanesulfonate-catalyzed Diels–Alder reactions in an organic solvent, 393

Reduction

Asymmetric allylboration for the synthesis of β -hydroxy- δ -lactone unit of statin drug analogs, 240

Regioselective alkylzirconation

Regioselective alkylzirconation of internal alkynes, 144

Resolution

TRISPHAT salts. Efficient NMR chiral shift and resolving agents for substituted cyclometallated ruthenium bis(diimine) complexes, 389

Rhodium

Rhodium-catalysed asymmetric ring opening of oxabicyclic alkenes with heteroatom nucleophiles, 260

The rhodium-catalyzed Pauson–Khand reaction, 74

Rhodium catalysts

Direct use of chiral or achiral organophosphorus boranes as pro-ligands for transition metal catalyzed reactions, 334

Ring closing metathesis

Synthesis of (–)-coniine and (–)-pipecoline using ruthenium catalyzed ring closing metathesis, 360

Ring opening

Synthesis of substituted cyclopropanone acetals by carbometallation and its oxidative cleavage with manganese(IV) oxide and lead(IV) oxide, 301

(R)- α -methyl benzylamine

Synthesis of (–)-coniine and (–)-pipecoline using ruthenium catalyzed ring closing metathesis, 360

Ruthenium

Chiral 1,2-bis(phosphetano)ethanes, 163

Cross-metathesis reaction. Generation of highly functionalized olefins from unsaturated alcohols, 328

Scandium perfluoroalkanesulfonates

Scandium perfluoroalkanesulfonate-catalyzed Diels–Alder reactions in an organic solvent, 393

Selective reductions

Hydrosilylation of aldehydes and ketones catalyzed by $[\text{Ph}_3\text{P}(\text{CuH})]_6$, 368

Silanediols

Self-organization of a rigid α,ω -bis-silanediol determined by X-ray crystal structure, 355

Silanes

Solid phase cross-coupling reaction of aryl(halo)silanes with 4-iodobenzoic acid, 209

Silicon electrophiles

On the evolution of organozinc carbenoid chemistry from carbonyl compounds — a personal account, 42

Silyl-cupration

Silyl-cupration of a propargylsilane as a test for the reversibility of a metallo-metallation, 70

Silyl ethers

Hydrosilylation of aldehydes and ketones catalyzed by $[\text{Ph}_3\text{P}(\text{CuH})]_6$, 368

Single-strand polymer

A single-strand polymer of hexacoordinated zinc(II) phosphodiester complex, 59

SNP(V) reaction

Controlled monohalogenation of phosphonates: Part IV. Selective synthesis of monohalogenomethylenediphosphonates, 204

Solid phase

Solid phase cross-coupling reaction of aryl(halo)silanes with 4-iodobenzoic acid, 209

(–)-Sparteine

Synthesis of enantioenriched indene-derived bicyclic alcohols and tricyclic cyclopropanes via (–)-sparteine-mediated lithiation of a racemic precursor and kinetic resolution during the cyclocarbolithiation, 97

Stereochemistry

On the steric course of transmetalations on enantiomerically defined α -carbamoyloxy organolithiums, 365

Styrenes

Cross-coupling of vinylpolysiloxanes with aryl iodides, 373

Synthesis

Synthesis of (–)-coniine and (–)-pipecoline using ruthenium catalyzed ring closing metathesis, 360

Terbinafine

Weakly ligated palladium complexes $\text{PdCl}_2(\text{RCN})_2$ in piperidine: versatile catalysts for Sonogashira reaction of vinyl chlorides at room temperature, 115

Tin-boron metathesis

The BF_3 and $\text{B}(\text{C}_6\text{F}_5)_3$ -catalyzed 1,3-isomerization of allylic stannanes, 295

Titanium

A highly efficient and practical preparation of 2,4-pentadienyltitaniums and their γ -selective addition reaction with aldehydes and ketones, 152

Titanium(II) derivatives

Carbon–carbon bond formation via oxidative-addition processes of titanium(II) reagents with π -bonded organic substrates. Reactivity modifications by Lewis acids and Lewis bases: Part 22. Organic chemistry of subvalent transition metal complexes, 230

Total synthesis

A short synthesis of (–)-dendrobine. Some observations on the nickel mediated radical cyclisation and on the Pauson–Khand reaction, 317

Transition metal catalyst

Highly diastereoselective desymmetrizing intramolecular cyclization of allylstannane with a diketone promoted by Lewis acid or transition metal complex, 137

Transmetalation

On the steric course of transmetalations on enantiomerically defined α -carbamoyloxy organolithiums, 365

 β -Tributylstannylacrolein dibenzyloxyacetal

Reactivity of γ -benzyloxyallyltins with cyclohexylidene glycerals, 384

Triflic acid

Synthesis and characterization of organotin triflate clusters, 288

tris-(Pentafluorophenyl)borane

The BF_3 and $\text{B}(\text{C}_6\text{F}_5)_3$ -catalyzed 1,3-isomerization of allylic stannanes, 295

2,3,6-Trisubstituted piperidines

1,4-Bis(arylsulfonyl)dihydropyridines in synthesis. Enantioselective synthesis of 2,3,6-trisubstituted piperidines, 381

 γ -Unsaturated carboxylic acids

Transition-metal catalyzed synthesis of δ -hydroxy- γ -lactones from bis(trimethylsilyl) ketene acetals and allylic acetates via γ -unsaturated carboxylic acids. Comments on the formation of α -cyclopropyl carboxylic acids, 187

 α,β -Unsaturated phosphine

Reactivity of lithium diphenylphosphonium diylides towards phosphorus electrophiles: Synthesis of α,β -unsaturated phosphorus compounds, 308

Vinylpolysiloxanes

Cross-coupling of vinylpolysiloxanes with aryl iodides, 373

Wang resin

Solid phase cross-coupling reaction of aryl(halo)silanes with 4-iodobenzoic acid, 209

Wittig reaction

Reactivity of lithium diphenylphosphonium ylides towards phosphorus electrophiles: Synthesis of α,β -unsaturated phosphorus compounds, 308

X-ray structure

Synthesis and structure analysis of tricarbonyl[tetrakis(1'-methylcyclopropyl)cyclobutadiene]iron(0), 111

Zinc

A single-strand polymer of hexacoordinated zinc(II) phosphodiester complex, 59

New preparation of benzylic zinc reagents via a fragmentation reaction, 89