



ELSEVIER

Journal of Organometallic Chemistry 653 (2002) 295–299

Journal
of Organo
metallic
Chemistry

www.elsevier.com/locate/jorgchem

Subject Index of Volume 653

- Alkenylboronates
New cascade and multiple cross-coupling reactions for the efficient construction of complex molecules, 129
- Alkenyl halide
Discovery of the cross-coupling reaction between Grignard reagents and C(sp²) halides catalyzed by nickel–phosphine complexes, 23
- Alkenylsilanols
Efficient and stereoselective cross-coupling with highly substituted alkenylsilanols, 98
- Alkyl coupling
Homo coupling, disproportionation and cross coupling of alkyl groups. Role of the transition metal catalyst, 11
- Alkylideneindolizidines
A convergent total synthesis of pumiliotoxins A and B via palladium-catalyzed cross-coupling reaction of homoallylic organozinc compounds with vinyl iodides, 229
- Allylsilanes
Catalytic asymmetric cross-coupling, 41
- Anilinium hypophosphite
Palladium-catalyzed cross-coupling reaction of anilinium hypophosphite with alkenyl bromides and triflates: application to the synthesis of GABA analogs, 252
- Annulation
Recent advances on the synthetic applications of the dithioacetal functionality, 209
- Arylation
Multiple arylation of carbonyl compounds via palladium catalysis, 161
- Aryl halide
Discovery of the cross-coupling reaction between Grignard reagents and C(sp²) halides catalyzed by nickel–phosphine complexes, 23
- Aryl halides
Multiple arylation of carbonyl compounds via palladium catalysis, 161
- Biaryl
Scope and limitation of the nickel-catalyzed coupling reaction between lithium borates and mesylates, 91
- Biaryls
Catalytic asymmetric cross-coupling, 41
The directed *ortho* metalation—cross coupling symbiosis. Regioselective methodologies for biaryls and heterobiaryls. Deployment in aromatic and heteroaromatic natural product synthesis, 150
- Borate
Scope and limitation of the nickel-catalyzed coupling reaction between lithium borates and mesylates, 91
- Bromoene
Studies on stereoselective Sonogashira coupling of 1,1-dibromo-1-alkene, 141
- Carbapenem
Application of cross-coupling reactions in Merck, 279
- Carboalumination–cross-coupling tandem
A genealogy of Pd-catalyzed cross-coupling, 34
- Carbometalation
Synthesis of functionalized alkenes by transition metal-catalyzed carbostannylations of alkynes and dienes followed by cross-coupling reactions, 114
- Carbon–carbon bond
Catalytically assisted carbon–carbon coupling reaction: a French–Japanese ‘cuisine’, 20
- Carbon–carbon bond formation
Catalytic asymmetric cross-coupling, 41
- Carbonyl compounds
Multiple arylation of carbonyl compounds via palladium catalysis, 161
- Cascade reactions
New cascade and multiple cross-coupling reactions for the efficient construction of complex molecules, 129
- Catalytic
Homo coupling, disproportionation and cross coupling of alkyl groups. Role of the transition metal catalyst, 11
- Catalytic cycle
Discovery of the cross-coupling reaction between Grignard reagents and C(sp²) halides catalyzed by nickel–phosphine complexes, 23
- C–C bond-formation
Palladium-catalyzed C–N and C–C cross-couplings as versatile, new avenues for modifications of purine 2'-deoxynucleosides, 234
- Chemical products
Some applications of the Grignard cross-coupling reaction in the industrial field, 288
- C–N bond-formation
Palladium-catalyzed C–N and C–C cross-couplings as versatile, new avenues for modifications of purine 2'-deoxynucleosides, 234
- Combinatorial chemistry
C–C Cross-coupling reactions for the combinatorial synthesis of novel organic materials, 200
- Combinatorial synthesis
New cascade and multiple cross-coupling reactions for the efficient construction of complex molecules, 129
- Conjugated polymers
Transition metal mediated routes to poly(arylphosphine)s: investigation of novel phosphorus containing conjugated polymers, 167
- Copper(I)
Homo coupling, disproportionation and cross coupling of alkyl groups. Role of the transition metal catalyst, 11
- Coumarins
C–C Cross-coupling reactions for the combinatorial synthesis of novel organic materials, 200
- Coupling
Scope and limitation of the nickel-catalyzed coupling reaction between lithium borates and mesylates, 91

Coupling reaction

Catalytically assisted carbon–carbon coupling reaction: a French–Japanese ‘cuisine’, 20

Cross-coupling reactions via organoboranes, 83

Cross-coupling

Development of Pd–Cu catalyzed cross-coupling of terminal acetylenes with sp^2 -carbon halides, 46

Preparation of 2-arylated-1,4-phenylenediamines by palladium-catalyzed cross-coupling reactions, 122

Cross coupling

The directed *ortho* metalation—cross coupling symbiosis. Regioselective methodologies for biaryls and heterobiaryls. Deployment in aromatic and heteroaromatic natural product synthesis, 150

Cross-coupling

Palladium-catalyzed cross-coupling reaction of organic halides with Grignard reagents, organolithium compounds and heteroatom nucleophiles, 27

Cross coupling

Recent advances on the synthetic applications of the dithioacetal functionality, 209

Cross-coupling

A historical note of the Stille reaction, 50

A reminiscence and a future prospect of transition metal-catalyzed cross-coupling processes, 5

Catalytic asymmetric cross-coupling, 41

Cross-coupling reaction of organoboron compounds via base-assisted transmetalation to palladium(II) complexes, 54

Efficient and stereoselective cross-coupling with highly substituted alkenylsilanols, 98

Highly active, air-stable palladium catalysts for Kumada–Tamao–Corriu cross-coupling reaction of inactivated aryl chlorides with aryl Grignard reagents, 63

New cascade and multiple cross-coupling reactions for the efficient construction of complex molecules, 129

Synthesis of functionalized alkenes by transition metal-catalyzed carbostannylation of alkynes and dienes followed by cross-coupling reactions, 114

Cross coupling

Cross-coupling reactions for preparation of π -conjugated polymers, 195

Cross-coupling

Application of cross-coupling reactions in Merck, 279

Palladium-catalyzed C–N and C–C cross-couplings as versatile, new avenues for modifications of purine 2'-deoxynucleosides, 234

Palladium-catalyzed cross-coupling reaction of anilinium hypophosphite with alkenyl bromides and triflates: application to the synthesis of GABA analogs, 252

Cross-coupling reaction

Cross-coupling reactions in the chemistry of silole-containing π -conjugated oligomers and polymers, 223

Discovery of the cross-coupling reaction between Grignard reagents and $C(sp^2)$ halides catalyzed by nickel–phosphine complexes, 23

Pyridylsilyl group-driven cross-coupling reactions, 105

Some applications of the Grignard cross-coupling reaction in the industrial field, 288

Cross-coupling reactions

Catalytic cross-coupling reactions mediated by palladium/nucleophilic carbene systems, 69

Cyclic voltammetry

C–C Cross-coupling reactions for the combinatorial synthesis of novel organic materials, 200

Cyclization

Exploiting the versatility of organometallic cross-coupling reactions for entry into extended aromatic systems, 215

Dehydrogenation

Exploiting the versatility of organometallic cross-coupling reactions for entry into extended aromatic systems, 215

2'-Deoxynucleosides

Palladium-catalyzed C–N and C–C cross-couplings as versatile, new avenues for modifications of purine 2'-deoxynucleosides, 234

1,1-Dibromo-1-alkene

Studies on stereoselective Sonogashira coupling of 1,1-dibromo-1-alkene, 141

Directed *ortho* metalation

The directed *ortho* metalation—cross coupling symbiosis. Regioselective methodologies for biaryls and heterobiaryls. Deployment in aromatic and heteroaromatic natural product synthesis, 150

Dithioacetal

Recent advances on the synthetic applications of the dithioacetal functionality, 209

DOE

Investigations into the Suzuki–Miyaura coupling aiming at multi-kilogram synthesis of E2040 using (*o*-cyanophenyl)boronic esters, 269

E2040

Investigations into the Suzuki–Miyaura coupling aiming at multi-kilogram synthesis of E2040 using (*o*-cyanophenyl)boronic esters, 269

Electrochemistry

Transition metal mediated routes to poly(arylphosphine)s: investigation of novel phosphorus containing conjugated polymers, 167

Electrophilic

Exploiting the versatility of organometallic cross-coupling reactions for entry into extended aromatic systems, 215

Fluorescence spectra

Cross-coupling reactions in the chemistry of silole-containing π -conjugated oligomers and polymers, 223

Fluorescent dyes

C–C Cross-coupling reactions for the combinatorial synthesis of novel organic materials, 200

Fluoride ion

How I came across the silicon-based cross-coupling reaction, 58

GABA analogs

Palladium-catalyzed cross-coupling reaction of anilinium hypophosphite with alkenyl bromides and triflates: application to the synthesis of GABA analogs, 252

Grignard

Some applications of the Grignard cross-coupling reaction in the industrial field, 288

Grignard reagent

Discovery of the cross-coupling reaction between Grignard reagents and $C(sp^2)$ halides catalyzed by nickel–phosphine complexes, 23

Grignard reagents

Palladium-catalyzed cross-coupling reaction of organic halides with Grignard reagents, organolithium compounds and heteroatom nucleophiles, 27

Heck reaction

Development of Pd–Cu catalyzed cross-coupling of terminal acetylenes with sp^2 -carbon halides, 46

Heteroaromatics

The directed *ortho* metalation—cross coupling symbiosis. Regioselective methodologies for biaryls and heterobiaryls. Deploy-

- ment in aromatic and heteroaromatic natural product synthesis, 150
- Heteroatom nucleophiles
 - Palladium-catalyzed cross-coupling reaction of organic halides with Grignard reagents, organolithium compounds and heteroatom nucleophiles, 27
- High-throughput-screening
 - C–C Cross-coupling reactions for the combinatorial synthesis of novel organic materials, 200
- Hiyama coupling
 - How I came across the silicon-based cross-coupling reaction, 58
- Homoallylzincs
 - A convergent total synthesis of pumiliotoxins A and B via palladium-catalyzed cross-coupling reaction of homoallylic organozinc compounds with vinyl iodides, 229
- Hydrometallation–cross-coupling tandem
 - A genealogy of Pd-catalyzed cross-coupling, 34
- Iron
 - Homo coupling, disproportionation and cross coupling of alkyl groups. Role of the transition metal catalyst, 11
- Ketone synthesis
 - A reminiscence and a future prospect of transition metal-catalyzed cross-coupling processes, 5
- Kumada–Tamao–Corriu reaction
 - Highly active, air-stable palladium catalysts for Kumada–Tamao–Corriu cross-coupling reaction of inactivated aryl chlorides with aryl Grignard reagents, 63
- Ligands
 - Cross-coupling reactions via organoboranes, 83
- Macrolactams
 - The intramolecular Stille reaction in some target natural product syntheses, 261
- Macrolactones
 - The intramolecular Stille reaction in some target natural product syntheses, 261
- Magnesium
 - Preparation of 2-arylated-1,4-phenylenediamines by palladium-catalyzed cross-coupling reactions, 122
- Mesyate
 - Scope and limitation of the nickel-catalyzed coupling reaction between lithium borates and mesylates, 91
- Metal acetylides
 - A new frontier in the metal-catalyzed cross-coupling reaction field. The palladium-promoted metal–carbon bond formation. Scope and mechanism of a new tool in organometallic synthesis, 177
- Natural products
 - The directed *ortho* metalation—cross coupling symbiosis. Regioselective methodologies for biaryls and heterobiaryls. Deployment in aromatic and heteroaromatic natural product synthesis, 150
- N-heterocyclic carbenes
 - Catalytic cross-coupling reactions mediated by palladium/nucleophilic carbene systems, 69
- Nickel
 - Synthesis of functionalized alkenes by transition metal-catalyzed carbostannylation of alkynes and dienes followed by cross-coupling reactions, 114
- Nickel-catalyst
 - Scope and limitation of the nickel-catalyzed coupling reaction between lithium borates and mesylates, 91
- Nickel catalyst
 - Catalytic asymmetric cross-coupling, 41
- Nickel–phosphine complex
 - Discovery of the cross-coupling reaction between Grignard reagents and C(sp²) halides catalyzed by nickel–phosphine complexes, 23
- Oligothiophenes
 - C–C Cross-coupling reactions for the combinatorial synthesis of novel organic materials, 200
- Organic electroluminescent devices
 - Cross-coupling reactions in the chemistry of silole-containing π -conjugated oligomers and polymers, 223
- Organic halide
 - A reminiscence and a future prospect of transition metal-catalyzed cross-coupling processes, 5
- Organic halides
 - A historical note of the Stille reaction, 50
 - Cross-coupling reactions via organoboranes, 83
- Organic materials
 - C–C Cross-coupling reactions for the combinatorial synthesis of novel organic materials, 200
- Organic triflates
 - Cross-coupling reactions via organoboranes, 83
- Organoboranes
 - Cross-coupling reactions via organoboranes, 83
- Organoboron compounds
 - Cross-coupling reaction of organoboron compounds via base-assisted transmetalation to palladium(II) complexes, 54
- Organolithium compounds
 - Palladium-catalyzed cross-coupling reaction of organic halides with Grignard reagents, organolithium compounds and heteroatom nucleophiles, 27
- Organometallic polycondensation
 - Cross-coupling reactions for preparation of π -conjugated polymers, 195
- Organometals containing Zn, Al, Zr, and Mg
 - A genealogy of Pd-catalyzed cross-coupling, 34
- Organophosphine
 - Transition metal mediated routes to poly(arylphosphine)s: investigation of novel phosphorus containing conjugated polymers, 167
- Organostannane
 - Synthesis of functionalized alkenes by transition metal-catalyzed carbostannylation of alkynes and dienes followed by cross-coupling reactions, 114
- Oxidative addition
 - A reminiscence and a future prospect of transition metal-catalyzed cross-coupling processes, 5
 - Discovery of the cross-coupling reaction between Grignard reagents and C(sp²) halides catalyzed by nickel–phosphine complexes, 23
 - Synthesis of functionalized alkenes by transition metal-catalyzed carbostannylation of alkynes and dienes followed by cross-coupling reactions, 114
- Palladium
 - Catalytic cross-coupling reactions mediated by palladium/nucleophilic carbene systems, 69
 - Palladium-catalyzed C–N and C–C cross-couplings as versatile, new avenues for modifications of purine 2'-deoxynucleosides, 234
 - Preparation of 2-arylated-1,4-phenylenediamines by palladium-catalyzed cross-coupling reactions, 122
 - Synthesis of functionalized alkenes by transition metal-catalyzed carbostannylation of alkynes and dienes followed by cross-coupling reactions, 114
- Palladium and compounds
 - A historical note of the Stille reaction, 50

- Multiple arylation of carbonyl compounds via palladium catalysis, 161
- Palladium catalysis
- Efficient and stereoselective cross-coupling with highly substituted alkenylsilanols, 98
- Palladium-catalysis
- New cascade and multiple cross-coupling reactions for the efficient construction of complex molecules, 129
- Palladium catalysis
- A new frontier in the metal-catalyzed cross-coupling reaction field. The palladium-promoted metal–carbon bond formation. Scope and mechanism of a new tool in organometallic synthesis, 177
 - Palladium-catalyzed cross-coupling reaction of anilinium hypophosphite with alkenyl bromides and triflates: application to the synthesis of GABA analogs, 252
- Palladium catalyst
- Catalytic asymmetric cross-coupling, 41
 - How I came across the silicon-based cross-coupling reaction, 58
 - Palladium-catalyzed cross-coupling reaction of organic halides with Grignard reagents, organolithium compounds and heteroatom nucleophiles, 27
- Palladium catalysts
- Cross-coupling reactions via organoboranes, 83
- Palladium-catalyzed cross-coupling reaction
- A convergent total synthesis of pumiliotoxins A and B via palladium-catalyzed cross-coupling reaction of homoallylic organozinc compounds with vinyl iodides, 229
- Palladium-catalyzed cross-couplings
- C–C Cross-coupling reactions for the combinatorial synthesis of novel organic materials, 200
- Palladium(II) complexes
- Cross-coupling reaction of organoboron compounds via base-assisted transmetalation to palladium(II) complexes, 54
- Pd-catalyzed cross-coupling
- A genealogy of Pd-catalyzed cross-coupling, 34
- Pd–Cu catalyst
- Development of Pd–Cu catalyzed cross-coupling of terminal acetylenes with sp^2 -carbon halides, 46
- Pd–Zn double metal catalysis
- A genealogy of Pd-catalyzed cross-coupling, 34
- Pentacoordinate silicate
- How I came across the silicon-based cross-coupling reaction, 58
- Pharmaceutical
- Application of cross-coupling reactions in Merck, 279
- Phosphinic acid
- Palladium-catalyzed cross-coupling reaction of anilinium hypophosphite with alkenyl bromides and triflates: application to the synthesis of GABA analogs, 252
- π -Conjugated polymer
- Cross-coupling reactions for preparation of π -conjugated polymers, 195
- Poly(aryleneethynylene)
- A new frontier in the metal-catalyzed cross-coupling reaction field. The palladium-promoted metal–carbon bond formation. Scope and mechanism of a new tool in organometallic synthesis, 177
- Polycyclic aromatics
- Exploiting the versatility of organometallic cross-coupling reactions for entry into extended aromatic systems, 215
- Polyfunctional organometallics
- Preparation of 2-arylated-1,4-phenylenediamines by palladium-catalyzed cross-coupling reactions, 122
- Polymerization
- Transition metal mediated routes to poly(arylphosphine)s: investigation of novel phosphorus containing conjugated polymers, 167
- Poly(metallaaryleneethynylene)
- A new frontier in the metal-catalyzed cross-coupling reaction field. The palladium-promoted metal–carbon bond formation. Scope and mechanism of a new tool in organometallic synthesis, 177
- Polyphosphines
- Transition metal mediated routes to poly(arylphosphine)s: investigation of novel phosphorus containing conjugated polymers, 167
- (+)-Pumiliotoxins A and B
- A convergent total synthesis of pumiliotoxins A and B via palladium-catalyzed cross-coupling reaction of homoallylic organozinc compounds with vinyl iodides, 229
- Pyridylsilyl group
- Pyridylsilyl group-driven cross-coupling reactions, 105
- Pyrylium
- Exploiting the versatility of organometallic cross-coupling reactions for entry into extended aromatic systems, 215
- Reaction mechanisms
- A new frontier in the metal-catalyzed cross-coupling reaction field. The palladium-promoted metal–carbon bond formation. Scope and mechanism of a new tool in organometallic synthesis, 177
- Reductive cyclization
- Cross-coupling reactions in the chemistry of silole-containing π -conjugated oligomers and polymers, 223
- Reductive debromination
- Investigations into the Suzuki–Miyaura coupling aiming at multi-kilogram synthesis of E2040 using (*o*-cyanophenyl)boronic esters, 269
- Reductive elimination
- A reminiscence and a future prospect of transition metal-catalyzed cross-coupling processes, 5
 - Discovery of the cross-coupling reaction between Grignard reagents and $C(sp^2)$ halides catalyzed by nickel–phosphine complexes, 23
- Removable directing group
- Pyridylsilyl group-driven cross-coupling reactions, 105
- Scale-up
- Investigations into the Suzuki–Miyaura coupling aiming at multi-kilogram synthesis of E2040 using (*o*-cyanophenyl)boronic esters, 269
- Silole
- Cross-coupling reactions in the chemistry of silole-containing π -conjugated oligomers and polymers, 223
- Silver(I)
- Homo coupling, disproportionation and cross coupling of alkyl groups. Role of the transition metal catalyst, 11
- Silylolefination
- Recent advances on the synthetic applications of the dithioacetal functionality, 209
- Sonogashira coupling
- Studies on stereoselective Sonogashira coupling of 1,1-dibromo-1-alkene, 141
- sp^2 -C halide
- Development of Pd–Cu catalyzed cross-coupling of terminal acetylenes with sp^2 -carbon halides, 46
- Stannatran
- Application of cross-coupling reactions in Merck, 279
- Stephens–Castro reaction
- Development of Pd–Cu catalyzed cross-coupling of terminal acetylenes with sp^2 -carbon halides, 46
- Stereoselective reaction
- Studies on stereoselective Sonogashira coupling of 1,1-dibromo-1-alkene, 141
- Stille coupling
- A new frontier in the metal-catalyzed cross-coupling reaction field. The palladium-promoted metal–carbon bond formation. Scope and mechanism of a new tool in organometallic synthesis, 177

- Stille–Migita
Application of cross-coupling reactions in Merck, 279
- Stille reaction
The intramolecular Stille reaction in some target natural product syntheses, 261
- Suzuki–Miyaura
Application of cross-coupling reactions in Merck, 279
Palladium-catalyzed C–N and C–C cross-couplings as versatile, new avenues for modifications of purine 2'-deoxynucleosides, 234
- Suzuki–Miyaura cross-coupling
Investigations into the Suzuki–Miyaura coupling aiming at multi-kilogram synthesis of E2040 using (*o*-cyanophenyl)boronic esters, 269
- Synthesis
The directed *ortho* metalation—cross coupling symbiosis. Regio-selective methodologies for biaryls and heterobiaryls. Deployment in aromatic and heteroaromatic natural product synthesis, 150
- Synthetic organic chemistry
Catalytically assisted carbon–carbon coupling reaction: a French–Japanese 'cuisine', 20
- $[(t\text{-Bu})_2\text{P}(\text{OH})]_2\text{PdCl}_2$
Highly active, air-stable palladium catalysts for Kumada–Tamao–Corriu cross-coupling reaction of inactivated aryl chlorides with aryl Grignard reagents, 63
- $[(t\text{-Bu})_2\text{P}(\text{OH})\text{PdCl}_2]_2$
Highly active, air-stable palladium catalysts for Kumada–Tamao–Corriu cross-coupling reaction of inactivated aryl chlorides with aryl Grignard reagents, 63
- Terminal acetylene
Development of Pd–Cu catalyzed cross-coupling of terminal acetylenes with sp^2 -carbon halides, 46
- Tin and compounds
A historical note of the Stille reaction, 50
- Transmetalation
How I came across the silicon-based cross-coupling reaction, 58
- Transmetallation
Discovery of the cross-coupling reaction between Grignard reagents and C(sp^2) halides catalyzed by nickel–phosphine complexes, 23
- UV-spectrum
Transition metal mediated routes to poly(arylphosphine)s: investigation of novel phosphorus containing conjugated polymers, 167
- UV–vis absorption spectra
Cross-coupling reactions in the chemistry of silole-containing π -conjugated oligomers and polymers, 223
- Vinyl iodides
A convergent total synthesis of pumiliotoxins A and B via palladium-catalyzed cross-coupling reaction of homoallylic organozinc compounds with vinyl iodides, 229
- Zinc
Preparation of 2-arylated-1,4-phenylenediamines by palladium-catalyzed cross-coupling reactions, 122
- Zwitterion synthon
Recent advances on the synthetic applications of the dithioacetal functionality, 209