





Journal of Organometallic Chemistry 670 (2003) 259-262

www.elsevier.com/locate/jorganchem

Subject Index of Volume 670

Acetylide

1,4-Diynes from alkynyl-propargyl coupling reactions, 151

Luminescent properties of carbon-rich starburst gold(I) acetylide complexes. Crystal structure of $[TEE][Au(PCy_3)]_4$ ($[TEE]H_4 =$ tetraethynylethene), 11

Macrocyclic gold(I) complexes and [2]catenanes containing carbonyl functionalized diacetylide ligands, 27

Organometallic complexes for nonlinear optics: Part 31. Cubic hyperpolarizabilities of ferrocenyl-linked gold and ruthenium complexes, 56

Organometallic complexes for nonlinear optics: Part 32: Synthesis, optical spectroscopy and theoretical studies of some osmium alkynyl complexes, 248

Structural varieties in double salts of silver acetylide containing ancillary anions and terminal ligands, 235

Synthesis and characterization of trimetallic complexes with a borazine core, 243

Synthesis of ruthenium acetylides: new building blocks for molecular electronics. 37

Acetylides

Reactivity of metal acetylides with chalcogen-bridged metal carbonyl cluster in presence of free alkyne molecule: synthesis and characterisation of $[(\eta^5-C_5Me_5)MFe_3(\mu_3-S)\}((\mu_3-C(H)=C(R)S)(CO)_6(\mu_3-CCPh)]$ (R = Ph, n-Bu and M = W, Mo) and $[(\eta^5-C_5Me_5)MFe_3(\mu_3-S)\}((\mu_3-C(Fc)=C(H)S)(CO)_7(\mu_3-CCPh)]$ (M = W, Mo), 144

Versatile reactions of a *para*-bromophenylacetylide iron(II) derivative and X-ray structure of the fluoro analogue. Synthesis of new redox-active organoiron(II) synthons, 108

Alkyne

A simple synthesis of tetraethynylethenes and representative molecular structures of some dicobalt derivatives, 178

Alkyne complexes

Et₂SiH₂ assisted the selective dimerization of terminal alkynes catalyzed by Cp₂*UMe₂, 97

Alkynes complexes

1,4-Diynes from alkynyl-propargyl coupling reactions, 151 Alkynyl

 $\eta^1\text{-Alkynyl}$ and vinylidene transition metal complexes: 10. Reaction of the metal-acetylide $[(\eta^5\text{-}C_5H_5)(CO)(NO)W-C\equiv C-C(CH_3)_3]Li$ with 1,2-diiodoethane as electrophile and with various nucleophiles, 66

Heterobimetallic platinum-copper and platinum-silver transition metal complexes based on *cis*-[Pt](C≡CPh)₂: an overview, 45

Homo-dinuclear σ-alkynyl complexes: past, present and opportunities, 188

Synthesis and reactivity of alkynyl niobocene complexes, 123

Synthesis, electrochemistry and structural characterization of luminescent rhenium(I) monoynyl complexes and their homoand hetero-metallic binuclear complexes, 205

Synthesis, structures and photophysics of novel luminescent platinum-copper complexes, 221

Titanocene and zirconocene σ-alkynyl complexes in C-C single bond coupling and cleavage reactions, 84

Alkynyl complexes

New ferrocenyl heterometallic complexes of 2,7-diethynylfluoren-9one, 17

σ-Alkynyl complexes

Synthesis of indenyl-ruthenium(II) σ -alkynyl complexes via nucleophilic addition of (1R)-(+)- and (1S)-(-)-camphor enolates on the allenylidene group of [Ru(=C=C=CPh₂)(η^5 -C₉H₇)(PPh₃)₂][PF₆]: Efficient synthesis of novel optically pure vinylidene derivatives, 75

Allenylidene complexes

Long-lived higher excited state luminescence from new ruthenium(II)-allenylidene complexes, 137

Synthesis of indenyl-ruthenium(II) σ -alkynyl complexes via nucleophilic addition of (1R)-(+)- and (1S)-(-)-camphor enolates on the allenylidene group of [Ru(=C=C=CPh₂)(η^5 -C₉H₇)(PPh₃)₂][PF₆]: Efficient synthesis of novel optically pure vinylidene derivatives, 75

Argentophilicity

Structural varieties in double salts of silver acetylide containing ancillary anions and terminal ligands, 235

Aryl halides

Versatile reactions of a para-bromophenylacetylide iron(II) derivative and X-ray structure of the fluoro analogue. Synthesis of new redox-active organoiron(II) synthons, 108

Bimetallic complexes

Synthesis of ruthenium acetylides: new building blocks for molecular electronics. 37

Borazine

Synthesis and characterization of trimetallic complexes with a borazine core, 243

Bridging ligand

Synthesis of ruthenium acetylides: new building blocks for molecular electronics, 37

Camphor

Synthesis of indenyl-ruthenium(II) σ -alkynyl complexes via nucleophilic addition of (1R)-(+)- and (1S)-(-)-camphor enolates on the allenylidene group of [Ru(=C=C=CPh₂)(η^5 -C₉H₇)(PPh₃)₂][PF₆]: Efficient synthesis of novel optically pure vinylidene derivatives, 75

Capped clusters

A new approach to the synthesis of carbon chains capped by metal clusters, 170

Carbon chains

A new approach to the synthesis of carbon chains capped by metal clusters, 170

Catalysis

Et₂SiH₂ assisted the selective dimerization of terminal alkynes catalyzed by Cp*₂UMe₂, 97

[2]Catenane

Macrocyclic gold(I) complexes and [2]catenanes containing carbonyl functionalized diacetylide ligands, 27

C-C cleavage

Titanocene and zirconocene σ-alkynyl complexes in C-C single bond coupling and cleavage reactions, 84

C-C coupling

Titanocene and zirconocene σ-alkynyl complexes in C-C single bond coupling and cleavage reactions, 84

C₁₀ chains

A new approach to the synthesis of carbon chains capped by metal clusters, 170

Cluster

Synthesis, structures and photophysics of novel luminescent platinum-copper complexes, 221

Cluster compounds

Cluster compounds containing a linear carbon chain derived from polyynediyl and polyynyl complexes, $Fp^*-(C\equiv C)_n-X$ [X = Fp*, H; Fp* = Fe(η^5 -C₅Me₅)(CO)₂], 2

Cobalt carbonyl complexes

A simple synthesis of tetraethynylethenes and representative molecular structures of some dicobalt derivatives, 178

Cobalt clusters

A new approach to the synthesis of carbon chains capped by metal clusters, 170

Copper

Heterobimetallic platinum-copper and platinum-silver transition metal complexes based on *cis*-[Pt](C≡CPh)₂: an overview, 45

Synthesis, structures and photophysics of novel luminescent platinum-copper complexes, 221

Cross-conjugation

Luminescent properties of carbon-rich starburst gold(I) acetylide complexes. Crystal structure of $[TEE][Au(PCy_3)]_4$ ($[TEE]H_4 = tetraethynylethene$), 11

Crystal structures

Reactivity of metal acetylides with chalcogen-bridged metal carbonyl cluster in presence of free alkyne molecule: synthesis and characterisation of $[(\eta^5-C_5Me_5)MFe_3(\mu_3-S)\{(\mu_3-C(H)=C(R)S\}(CO)_6(\mu_3-CCPh)]$ (R = Ph, n-Bu and M = W, Mo) and $[(\eta^5-C_5Me_5)MFe_3(\mu_3-S)\{(\mu_3-C(Fc)=C(H)S\}(CO)_7(\mu_3-CCPh)]$ (M = W, Mo), 144

Density functional theory

Organometallic complexes for nonlinear optics: Part 32: Synthesis, optical spectroscopy and theoretical studies of some osmium alkynyl complexes, 248

Difluoroacetate

Structural varieties in double salts of silver acetylide containing ancillary anions and terminal ligands, 235

Dimerization of alkynes

 Et_2SiH_2 assisted the selective dimerization of terminal alkynes catalyzed by $Cp_2^*UMe_2$, 97

Dinuclear

Homo-dinuclear σ -alkynyl complexes: past, present and opportunities, 188

1,4-Diynes

1,4-Diynes from alkynyl-propargyl coupling reactions, 151

Double salt

Structural varieties in double salts of silver acetylide containing ancillary anions and terminal ligands, 235

Electrochemistry

Organometallic complexes for nonlinear optics: Part 31. Cubic hyperpolarizabilities of ferrocenyl-linked gold and ruthenium complexes, 56

Synthesis, electrochemistry and structural characterization of luminescent rhenium(I) monoynyl complexes and their homoand hetero-metallic binuclear complexes, 205

Electrophilic and nucleophilic reactions

 $\eta^{1}\text{-Alkynyl}$ and vinylidene transition metal complexes: 10. Reaction

of the metal-acetylide $[(\eta^5-C_5H_5)(CO)(NO)W-C\equiv C-C(CH_3)_3]Li$ with 1,2-diiodoethane as electrophile and with various nucleophiles, 66

Ethyne-1,2-diyl

Reactions of metalloalkynes VII. Protonation of ruthenium ethyne-1,2-diyl complexes, 198

Ferrocene

New ferrocenyl heterometallic complexes of 2,7-diethynylfluoren-9one. 17

Fluorescence

Luminescent properties of carbon-rich starburst gold(I) acetylide complexes. Crystal structure of [TEE][Au(PCy₃)]₄ ([TEE]H₄ = tetraethynylethene), 11

Gold

Luminescent properties of carbon-rich starburst gold(I) acetylide complexes. Crystal structure of $[TEE][Au(PCy_3)]_4$ ($[TEE]H_4 =$ tetraethynylethene), 11

Macrocyclic gold(I) complexes and [2]catenanes containing carbonyl functionalized diacetylide ligands, 27

New ferrocenyl heterometallic complexes of 2,7-diethynylfluoren-9one. 17

Organometallic complexes for nonlinear optics: Part 31. Cubic hyperpolarizabilities of ferrocenyl-linked gold and ruthenium complexes, 56

Hammett

Versatile reactions of a *para*-bromophenylacetylide iron(II) derivative and X-ray structure of the fluoro analogue. Synthesis of new redox-active organoiron(II) synthons, 108

Heterometallic

Heterobimetallic platinum-copper and platinum-silver transition metal complexes based on *cis*-[Pt](C≡CPh)₂: an overview, 45

Heterometallic clusters

Reactivity of metal acetylides with chalcogen-bridged metal carbonyl cluster in presence of free alkyne molecule: synthesis and characterisation of $[(\eta^5\text{-}C_5Me_5)MFe_3(\mu_3\text{-}S)\{(\mu_3\text{-}C(H)\text{-}C(R)S\}(CO)_6(\mu_3\text{-}CCPh)]\ (R=Ph,\ n\text{-}Bu\ and\ M=W,\ Mo)\ and\ [(\eta^5\text{-}C_5Me_5)MFe_3(\mu_3\text{-}S)\{(\mu_3\text{-}C(Fc)\text{-}C(H)S\}(CO)_7(\mu_3\text{-}CCPh)]\ (M=W,\ Mo),\ 144$

Hydride

Synthesis and characterization of trimetallic complexes with a borazine core, 243

Hyperpolarizability

Organometallic complexes for nonlinear optics: Part 31. Cubic hyperpolarizabilities of ferrocenyl-linked gold and ruthenium complexes, 56

Imido

Synthesis and reactivity of alkynyl niobocene complexes, 123

Iminophosphine

Palladium-iminophosphine-catalyzed homocoupling of alkynylstannanes and other organostannanes using allyl acetate or air as an oxidant, 132

Indenyl

Synthesis of indenyl-ruthenium(II) σ -alkynyl complexes via nucleophilic addition of (1R)-(+)- and (1S)-(-)-camphor enolates on the allenylidene group of [Ru(=C=C=CPh₂)(η^5 -C₉H₇)(PPh₃)₂][PF₆]: Efficient synthesis of novel optically pure vinylidene derivatives, 75

Iron

Organometallic complexes for nonlinear optics: Part 31. Cubic hyperpolarizabilities of ferrocenyl-linked gold and ruthenium complexes, 56

Linear carbon chain

Cluster compounds containing a linear carbon chain derived from polyynediyl and polyynyl complexes, $Fp^*-(C\equiv C)_n-X$ [X = Fp*, H; $Fp^*=Fe(\eta^5-C_5Me_5)(CO)_2$], 2

Luminescence

Long-lived higher excited state luminescence from new ruthenium(II)-allenylidene complexes, 137

Synthesis, electrochemistry and structural characterization of luminescent rhenium(I) monoynyl complexes and their homoand hetero-metallic binuclear complexes, 205

Synthesis, structures and photophysics of novel luminescent platinum-copper complexes, 221

Macrocycle

Macrocyclic gold(I) complexes and [2]catenanes containing carbonyl functionalized diacetylide ligands, 27

Mercury

New ferrocenyl heterometallic complexes of 2,7-diethynylfluoren-9one, 17

Metallaynes

Homo-dinuclear σ-alkynyl complexes: past, present and opportunities, 188

Metallo-ligand

Synthesis, electrochemistry and structural characterization of luminescent rhenium(I) monoynyl complexes and their homoand hetero-metallic binuclear complexes, 205

Metal-metal bonding

Homo-dinuclear σ-alkynyl complexes: past, present and opportunities, 188

Metal-to-ligand charge transfer (MLCT) transition

Synthesis, electrochemistry and structural characterization of luminescent rhenium(I) monoynyl complexes and their homoand hetero-metallic binuclear complexes, 205

Molecular wires

Homo-dinuclear σ-alkynyl complexes: past, present and opportunities, 188

Niobocene

Synthesis and reactivity of alkynyl niobocene complexes, 123 Nonlinear optics

Organometallic complexes for nonlinear optics: Part 31. Cubic hyperpolarizabilities of ferrocenyl-linked gold and ruthenium complexes, 56

Oligomerization of alkynes

Et₂SiH₂ assisted the selective dimerization of terminal alkynes catalyzed by Cp₂*UMe₂, 97

Oligometallic

Heterobimetallic platinum-copper and platinum-silver transition metal complexes based on *cis*-[Pt](C=CPh)₂: an overview, 45

Optical spectroscopy

Organometallic complexes for nonlinear optics: Part 32: Synthesis, optical spectroscopy and theoretical studies of some osmium alkynyl complexes, 248

Organoactinide

Et₂SiH₂ assisted the selective dimerization of terminal alkynes catalyzed by Cp₂*UMe₂, 97

Organoiror

Versatile reactions of a *para*-bromophenylacetylide iron(II) derivative and X-ray structure of the fluoro analogue. Synthesis of new redox-active organoiron(II) synthons, 108

Organostannane

Palladium-iminophosphine-catalyzed homocoupling of alkynylstannanes and other organostannanes using allyl acetate or air as an oxidant, 132

Osmium

Organometallic complexes for nonlinear optics: Part 32: Synthesis,

optical spectroscopy and theoretical studies of some osmium alkynyl complexes, 248

Oxidative homocoupling

Palladium-iminophosphine-catalyzed homocoupling of alkynylstannanes and other organostannanes using allyl acetate or air as an oxidant, 132

Palladium

Palladium-iminophosphine-catalyzed homocoupling of alkynylstannanes and other organostannanes using allyl acetate or air as an oxidant, 132

Phosphorescence

Luminescent properties of carbon-rich starburst gold(I) acetylide complexes. Crystal structure of [TEE][Au(PCy₃)]₄ ([TEE]H₄ = tetraethynylethene), 11

Photophysics

Long-lived higher excited state luminescence from new ruthenium(II)-allenylidene complexes, 137

Platinum

Heterobimetallic platinum-copper and platinum-silver transition metal complexes based on cis-[Pt](C≡CPh)₂: an overview, 45

New ferrocenyl heterometallic complexes of 2,7-diethynylfluoren-9one. 17

Synthesis, structures and photophysics of novel luminescent platinum-copper complexes, 221

Polyynediyl complexes

Cluster compounds containing a linear carbon chain derived from polyynediyl and polyynyl complexes, $Fp^*-(C\equiv C)_n-X$ [X = Fp*, H; $Fp^*=Fe(\eta^5-C_5Me_5)(CO)_2$], 2

Poly-ynes

Synthesis of ruthenium acetylides: new building blocks for molecular electronics, 37

Propargylation

1,4-Diynes from alkynyl-propargyl coupling reactions, 151 Protonation

Reactions of metalloalkynes VII. Protonation of ruthenium ethyne-1,2-diyl complexes, 198

Synthesis and reactivity of alkynyl niobocene complexes, 123

Redox-active

Versatile reactions of a *para*-bromophenylacetylide iron(II) derivative and X-ray structure of the fluoro analogue. Synthesis of new redox-active organoiron(II) synthons, 108

Resonance Raman

Long-lived higher excited state luminescence from new ruthenium(II)-allenylidene complexes, 137

Rhenium(I)

Synthesis, electrochemistry and structural characterization of luminescent rhenium(I) monoynyl complexes and their homoand hetero-metallic binuclear complexes, 205

Ruthenium

Organometallic complexes for nonlinear optics: Part 31. Cubic hyperpolarizabilities of ferrocenyl-linked gold and ruthenium complexes, 56

Reactions of metalloalkynes VII. Protonation of ruthenium ethyne-1,2-diyl complexes, 198

Synthesis and characterization of trimetallic complexes with a borazine core, 243

Synthesis of indenyl-ruthenium(II) σ-alkynyl complexes via nucleophilic addition of (1*R*)-(+)- and (1*S*)-(-)-camphor enolates on the allenylidene group of [Ru(=C=C=CPh₂)(η⁵-C₉H₇)(PPh₃)₂][PF₆]: Efficient synthesis of novel optically pure vinylidene derivatives, 75

Ruthenium complexes

Synthesis of ruthenium acetylides: new building blocks for molecular electronics, 37

Ruthenium(II)

Long-lived higher excited state luminescence from new ruthenium(II)-allenylidene complexes, 137

Self-assembly

Macrocyclic gold(I) complexes and [2]catenanes containing carbonyl functionalized diacetylide ligands, 27

Silane

 Et_2SiH_2 assisted the selective dimerization of terminal alkynes catalyzed by $Cp_2^*UMe_2$, 97

Silver

Heterobimetallic platinum-copper and platinum-silver transition metal complexes based on *cis*-[Pt](C≡CPh)₂: an overview, 45

Structural varieties in double salts of silver acetylide containing ancillary anions and terminal ligands, 235

Skipped diynes

1,4-Diynes from alkynyl-propargyl coupling reactions, 151 Spectroelectrochemistry

Organometallic complexes for nonlinear optics: Part 32: Synthesis, optical spectroscopy and theoretical studies of some osmium alkynyl complexes, 248

Synthesis

Versatile reactions of a *para*-bromophenylacetylide iron(II) derivative and X-ray structure of the fluoro analogue. Synthesis of new redox-active organoiron(II) synthons, 108

Terminal alkynes

Synthesis of indenyl-ruthenium(II) σ -alkynyl complexes via nucleophilic addition of (1R)-(+)- and (1S)-(-)-camphor enolates on the allenylidene group of [Ru(=C=C=CPh₂)(η^5 -C₉H₇)(PPh₃)₂][PF₆]: Efficient synthesis of novel optically pure vinylidene derivatives, 75

Tetraethynylethene

A simple synthesis of tetraethynylethenes and representative molecular structures of some dicobalt derivatives. 178

Titanocene

Titanocene and zirconocene σ-alkynyl complexes in C-C single bond coupling and cleavage reactions, 84

Triflate

Structural varieties in double salts of silver acetylide containing ancillary anions and terminal ligands, 235

Trifluoroacetate

Structural varieties in double salts of silver acetylide containing ancillary anions and terminal ligands, 235

Tungsten

 η^1 -Alkynyl and vinylidene transition metal complexes: 10. Reaction of the metal-acetylide $[(\eta^5-C_5H_5)(CO)(NO)W-C\equiv C-C(CH_3)_3]$ Li with 1,2-diiodoethane as electrophile and with various nucleophiles, 66

π-Tweezei

Heterobimetallic platinum-copper and platinum-silver transition metal complexes based on *cis*-[Pt](C≡CPh)₂: an overview, 45

Vinvlidene

 η^1 -Alkynyl and vinylidene transition metal complexes: 10. Reaction of the metal-acetylide $[(\eta^5-C_5H_5)(CO)(NO)W-C\equiv C-C(CH_3)_3]$ Li with 1,2-diiodoethane as electrophile and with various nucleophiles, 66

Synthesis and reactivity of alkynyl niobocene complexes, 123 Vinylidene complexes

Synthesis of indenyl-ruthenium(II) σ -alkynyl complexes via nucleophilic addition of (1R)-(+)- and (1S)-(-)-camphor enolates on the allenylidene group of $[Ru(=C=C=CPh_2)(\eta^5-C_9H_7)(PPh_3)_2][PF_6]$: Efficient synthesis of novel optically pure vinylidene derivatives, 75

Zirconocene

Titanocene and zirconocene σ-alkynyl complexes in C-C single bond coupling and cleavage reactions, 84