

www.elsevier.nl/locate/jorganchem

Journal of Organometallic Chemistry 600 (2000) 209-211



# Subject Index of Volume 600

Alkoxyborohydrides

Organonickel chemistry in the catalytic hydrodechlorination of polychlorobiphenyls (PCBs): ligand steric effects and molecular structure of reaction intermediates, 63

Alkoxyphosphinidene clusters

Precursors of quadruply bridging phosphorus monoxide ligands: synthesis and structural characterization of a new family of anionic fluoro and alkoxyphosphinidene clusters  $Ru_5(CO)_{15}(\mu_4$ -PR) (R = N'Pr<sub>2</sub>, NCy<sub>2</sub>, F, OMe, OEt, O'Pr): generation and structure of  $[H_2NCy_2][Ru_5(CO)_{15}(\mu_4$ -PO)], 84

```
Alkynes
```

- Platinum-alkynyl and -alkyne complexes: old systems with new chemical and physical perspectives, 37
- Reactivity studies of  $[Pd_2(\mu-X)_2(PBu'_3)_2]$  (X = Br, I) with CNR (R = 2,6-dimethylphenyl), H<sub>2</sub> and alkynes, 198

Alkynyls

Platinum-alkynyl and -alkyne complexes: old systems with new chemical and physical perspectives, 37

Aluminum

The future of aluminum chemistry, 186

# Amides

Progress report, 144

Anthracenyl

Future prospects in organometallic chemistry of the Main Group metals: small molecules — supramolecular chemistry, 174 Application to organic synthesis

Organotransition-metal chemistry: past development and future outlook, 159

Aqueous carbonyl complexes

New paradigms for synthetic pathways inspired by bioorganometallic chemistry, 23

Aromaticity

1,2,4-Triazolium-5-ylidene and 1,2,4-triazol-3,5-diylidene as new ligands for transition metals, 112

Asymmetric syntheses

Organotransition-metal chemistry: past development and future outlook, 159

1-Azaallyl

Progress report, 144

Enhanced nucleophilicity of ambiphilic silylene and silylenoid bearing 8-(dimethylamino)-1-naphthyl group, 118

Benzyl

Titanium imido complexes containing 1,3,5-triazacyclohexane ligands, 71

Bimetallic

Metal segregation in bimetallic clusters and its possible role in synergism and bifunctional catalysis, 1

Biological

The future of aluminum chemistry, 186

**Biomimetic** 

Substrate binding and activation via pendant hydrogen-bonding groups as an approach to biomimetic homogeneous catalysis, 7

**Bulky** ligands

Future prospects in organometallic chemistry of the Main Group metals: small molecules — supramolecular chemistry, 174

# Carbene

1,2,4-Triazolium-5-ylidene and 1,2,4-triazol-3,5-diylidene as new ligands for transition metals, 112

Carbon-rich materials

- A novel weakly diatropic dehydroannulene containing the cyclobutadiene(cyclopentadienyl)cobalt unit. An organometallic dehydroannulene that obeys Hückel's rule, 56
- Carboranes

Future prospects in organometallic chemistry of the Main Group metals: small molecules — supramolecular chemistry, 174 Catalysis

Metal segregation in bimetallic clusters and its possible role in synergism and bifunctional catalysis, 1

- Organonickel chemistry in the catalytic hydrodechlorination of polychlorobiphenyls (PCBs): ligand steric effects and molecular structure of reaction intermediates, 63
- Results and perspectives in the chemistry of side-chain-functionalized cyclopentadienyl compounds, 127
- The future of aluminum chemistry, 186
- Combinatorial chemistry

Substrate binding and activation via pendant hydrogen-bonding groups as an approach to biomimetic homogeneous catalysis, 7

Computational chemistry

Organotransition-metal chemistry: past development and future outlook, 159

Cooperative effects

Synthesis, structure and reactivity of homobimetallic Rh(I) and Ir(I) complexes of s- and as-indacene-diide, 94

## Cyclobutadiene complexes

A novel weakly diatropic dehydroannulene containing the cyclobutadiene(cyclopentadienyl)cobalt unit. An organometallic dehydroannulene that obeys Hückel's rule, 56

Decomplexation-complexation

New paradigms for synthetic pathways inspired by bioorganometallic chemistry, 23

Dendrimers

Results and perspectives in the chemistry of side-chain-functionalized cyclopentadienyl compounds, 127

Dihydrogen

Reactivity studies of  $[Pd_2(\mu-X)_2(PBu_3')_2]$  (X = Br, I) with CNR (R = 2,6-dimethylphenyl), H<sub>2</sub> and alkynes, 198

Base-coordinated silylene

Intramolecular coordination

## β-Diketiminates Progress report, 144

#### Dimer

- Reactivity studies of  $[Pd_2(\mu-X)_2(PBu'_3)_2]$  (X = Br, I) with CNR (R = 2,6-dimethylphenyl), H<sub>2</sub> and alkynes, 198
- 8-(Dimethylamino)-1-naphthyl group
- Enhanced nucleophilicity of ambiphilic silylene and silylenoid bearing 8-(dimethylamino)-1-naphthyl group, 118

# 1,2-Disilaacenaphthene

Enhanced nucleophilicity of ambiphilic silylene and silylenoid bearing 8-(dimethylamino)-1-naphthyl group, 118

### Elementary processes

Organotransition-metal chemistry: past development and future outlook, 159

## Ferrocene

Organotransition-metal chemistry: past development and future outlook, 159

Fluorophosphinidene

Precursors of quadruply bridging phosphorus monoxide ligands: synthesis and structural characterization of a new family of anionic fluoro and alkoxyphosphinidene clusters  $Ru_5(CO)_{15}(\mu_4$ -PR) (R = N'Pr<sub>2</sub>, NCy<sub>2</sub>, F, OMe, OEt, O'Pr): generation and structure of [H<sub>2</sub>NCy<sub>2</sub>][Ru<sub>5</sub>(CO)<sub>15</sub>( $\mu_4$ -PO)], 84

# Fluxional

Titanium imido complexes containing 1,3,5-triazacyclohexane ligands, 71

Functionalized cyclopentadienyl compounds

Results and perspectives in the chemistry of side-chain-functionalized cyclopentadienyl compounds, 127

#### Grignard

Future prospects in organometallic chemistry of the Main Group metals: small molecules --- supramolecular chemistry, 174

## Homogeneous catalysis

- Substrate binding and activation via pendant hydrogen-bonding groups as an approach to biomimetic homogeneous catalysis, 7
- Hormones/antihormones
  - New paradigms for synthetic pathways inspired by bioorganometallic chemistry, 23
- Hydrogen bonding
  - Substrate binding and activation via pendant hydrogen-bonding groups as an approach to biomimetic homogeneous catalysis, 7

### Hydrogenolysis

Organonickel chemistry in the catalytic hydrodechlorination of polychlorobiphenyls (PCBs): ligand steric effects and molecular structure of reaction intermediates, 63

Hydrosilation

Substrate binding and activation via pendant hydrogen-bonding groups as an approach to biomimetic homogeneous catalysis, 7

# Imide

Titanium imido complexes containing 1,3,5-triazacyclohexane ligands, 71

Indacene-diide complexes

Synthesis, structure and reactivity of homobimetallic Rh(I) and Ir(I) complexes of s- and as-indacene-diide, 94

Intermolecular coordination

Results and perspectives in the chemistry of side-chain-functionalized cyclopentadienyl compounds, 127

Results and perspectives in the chemistry of side-chain-functionalized cyclopentadienyl compounds, 127 Iridium Substrate binding and activation via pendant hydrogen-bonding groups as an approach to biomimetic homogeneous catalysis, 7 Iridium complexes Synthesis, structure and reactivity of homobimetallic Rh(I) and Ir(I) complexes of s- and as-indacene-diide, 94 Iron New paradigms for synthetic pathways inspired by bioorganometallic chemistry, 23 Isocyanides Reactivity studies of  $[Pd_2(\mu-X)_2(PBu'_3)_2]$  (X = Br, I) with CNR (R = 2,6-dimethylphenyl), H<sub>2</sub> and alkynes, 198 Lanthanides Progress report, 144 Ligand design Progress report, 144 Main Group elements Some past vignettes of and future prospects for Main Group chemistry, 168 Materials The future of aluminum chemistry, 186 Metal exchange reaction New paradigms for synthetic pathways inspired by bioorganometallic chemistry, 23 Mixed-metal Metal segregation in bimetallic clusters and its possible role in synergism and bifunctional catalysis, 1 Molecular recognition Results and perspectives in the chemistry of side-chain-functionalized cyclopentadienyl compounds, 127 Mono- and polynuclear complexes Platinum-alkynyl and -alkyne complexes: old systems with new chemical and physical perspectives, 37 Multiple bonding Some past vignettes of and future prospects for Main Group chemistry, 168  $MX_2$  (M = Si, Ge, Sn, Pb) Progress report, 144 N-Heterocyclic carbenes N-Heterocyclic carbenes: state of the art in transition-metal-complex synthesis, 12 Nickel complexes Organonickel chemistry in the catalytic hydrodechlorination of polychlorobiphenyls (PCBs): ligand steric effects and molecular structure of reaction intermediates, 63 Organometallic dehydroannulenes

A novel weakly diatropic dehydroannulene containing the cyclobutadiene(cyclopentadienyl)cobalt unit. An organometallic dehydroannulene that obeys Hückel's rule, 56

Organometallic polymers

1,2,4-Triazolium-5-ylidene and 1,2,4-triazol-3,5-diylidene as new ligands for transition metals, 112

#### Palladium

Reactivity studies of  $[Pd_2(\mu-X)_2(PBu'_3)_2]$  (X = Br, I) with CNR (R = 2,6-dimethylphenyl), H<sub>2</sub> and alkynes, 198

## Phosphinidene

Precursors of quadruply bridging phosphorus monoxide ligands: synthesis and structural characterization of a new family of anionic fluoro and alkoxyphosphinidene clusters  $Ru_5(CO)_{15}(\mu_4$ -PR) (R = N'Pr<sub>2</sub>, NCy<sub>2</sub>, F, OMe, OEt, O'Pr): generation and structure of  $[H_2NCy_2][Ru_5(CO)_{15}(\mu_4$ -PO)], 84

Phosphorus monoxide

Precursors of quadruply bridging phosphorus monoxide ligands: synthesis and structural characterization of a new family of anionic fluoro and alkoxyphosphinidene clusters  $Ru_5(CO)_{15}(\mu_4$ -PR) (R = N'Pr<sub>2</sub>, NCy<sub>2</sub>, F, OMe, OEt, O'Pr): generation and structure of [H<sub>2</sub>NCy<sub>2</sub>][Ru<sub>5</sub>(CO)<sub>15</sub>( $\mu_4$ -PO)], 84

#### Platinum

- Metal segregation in bimetallic clusters and its possible role in synergism and bifunctional catalysis, 1
- Platinum-alkynyl and -alkyne complexes: old systems with new chemical and physical perspectives, 37

Polychlorinated biphenyls

Organonickel chemistry in the catalytic hydrodechlorination of polychlorobiphenyls (PCBs): ligand steric effects and molecular structure of reaction intermediates, 63

Radiopharmaceuticals

New paradigms for synthetic pathways inspired by bioorganometallic chemistry, 23

Rhenium

New paradigms for synthetic pathways inspired by bioorganometallic chemistry, 23

Rhodium complexes

Synthesis, structure and reactivity of homobimetallic Rh(I) and Ir(I) complexes of s- and as-indacene-diide, 94

Ruthenium

- Metal segregation in bimetallic clusters and its possible role in synergism and bifunctional catalysis, 1
- 1-Silaphenalene

Enhanced nucleophilicity of ambiphilic silylene and silylenoid bearing 8-(dimethylamino)-1-naphthyl group, 118 Silaylide

Ēn

Enhanced nucleophilicity of ambiphilic silylene and silylenoid bearing 8-(dimethylamino)-1-naphthyl group, 118

Silicon

Enhanced nucleophilicity of ambiphilic silylene and silylenoid bearing 8-(dimethylamino)-1-naphthyl group, 118

Silver complexes

1,2,4-Triazolium-5-ylidene and 1,2,4-triazol-3,5-diylidene as new ligands for transition metals, 112

Silylene

Enhanced nucleophilicity of ambiphilic silylene and silylenoid bearing 8-(dimethylamino)-1-naphthyl group, 118

#### Silylenoid

Enhanced nucleophilicity of ambiphilic silylene and silylenoid bearing 8-(dimethylamino)-1-naphthyl group, 118

# Steric crowding

Some past vignettes of and future prospects for Main Group chemistry, 168

Supramolecular

Future prospects in organometallic chemistry of the Main Group metals: small molecules — supramolecular chemistry, 174 Syn/anti isomers

Synthesis, structure and reactivity of homobimetallic Rh(I) and Ir(I) complexes of s- and as-indacene-diide, 94

#### Synergism

Metal segregation in bimetallic clusters and its possible role in synergism and bifunctional catalysis, 1

# Synthesis

N-Heterocyclic carbenes: state of the art in transition-metal-complex synthesis, 12

#### Technetium

New paradigms for synthetic pathways inspired by bioorganometallic chemistry, 23

Titanium

Titanium imido complexes containing 1,3,5-triazacyclohexane ligands, 71

Titanium complexes

- New paradigms for synthetic pathways inspired by bioorganometallic chemistry, 23
- Transition-metal complexes
  - N-Heterocyclic carbenes: state of the art in transition-metal-complex synthesis, 12

# Triazacyclohexane

Titanium imido complexes containing 1,3,5-triazacyclohexane ligands, 71

#### Trimer

Reactivity studies of  $[Pd_2(\mu-X)_2(PBu'_3)_2]$  (X = Br, I) with CNR (R = 2,6-dimethylphenyl), H<sub>2</sub> and alkynes, 198

#### Water solubility

Results and perspectives in the chemistry of side-chain-functionalized cyclopentadienyl compounds, 127

#### X-ray diffraction

Titanium imido complexes containing 1,3,5-triazacyclohexane ligands, 71

- X-ray structures
  - Organonickel chemistry in the catalytic hydrodechlorination of polychlorobiphenyls (PCBs): ligand steric effects and molecular structure of reaction intermediates, 63

# Ziegler catalyst

Organotransition-metal chemistry: past development and future outlook, 159

# Zirconium

Titanium imido complexes containing 1,3,5-triazacyclohexane ligands, 71