

Subject index

Acetylene alcohols

Hydrogenation of acetylene alcohols with novel Pd colloidal catalysts prepared in block copolymers micelles (Sulman, E. (146) 265)

Acetylenic alcohols

Catalytic hydrogenation of acetylenic alcohols using palladium complex of fullerene C₆₀ (Sulman, E. (146) 257)

Acid–base hydrolysis

A new catalytic hybrid material from simple acid–base hydrolytic chemistry (Petrucci, M.G.L. (146) 309)

Activated Mg–Al hydrotalcite

The first example of Michael addition catalysed by modified Mg–Al hydrotalcite (Choudary, B.M. (146) 279)

1,4 addition

The first example of Michael addition catalysed by modified Mg–Al hydrotalcite (Choudary, B.M. (146) 279)

Aerobic modification

Chiral environments at alkaloid-modified platinum surfaces (Wells, P.B. (146) 159)

AFM

Copper (II) chloride–dmf catalytic system in solution and on silica (Golubeva, E.N. (146) 343)

Ag⁺–ZSM-5

Well defined carbonyl complexes in Ag⁺- and Cu⁺-exchanged ZSM-5 zeolite: a comparison with homogeneous counterparts (Bordiga, S. (146) 97)

Air oxidation of alkanes

Engineering uniform active sites in inorganic solid catalysts (Thomas, J.M. (146) 77)

Alcohol

Novel catalysts for asymmetric reduction of carbonyl groups (Wills, M. (146) 139)

Aliquat 336[®]

Hydrogenation and dehalogenation of aryl chlorides and fluorides by the sol–gel entrapped RhCl₃–Aliquat 336 ion pair catalyst (Blum, J. (146) 117)

Alkaloid modifier

Chiral environments at alkaloid-modified platinum surfaces (Wells, P.B. (146) 159)

Alkane hydrogenolysis

Recent applications in catalysis of surface organometallic chemistry (Lefebvre, F. (146) 3)

Alkane hydroisomerization

Recent applications in catalysis of surface organometallic chemistry (Lefebvre, F. (146) 3)

Alkane metathesis

Recent applications in catalysis of surface organometallic chemistry (Lefebvre, F. (146) 3)

Alkylation

Alkylation of benzene catalysed by supported heteropolyacids (De Angelis, A. (146) 37)

Alternating copolymerization

Catalytic conversions in water. Part 11: Highly active water-soluble palladium-catalysts in the hydrocarboxylation of olefins and the alternating copolymerization of CO and olefins in water (Verspui, G. (146) 299)

Aluminum halide

Application of low temperature IR spectroscopy for studies of catalyst properties and dynamics on the example of aluminum halide complexes (Shilina, M.I. (146) 335)

Aminoindanol

Novel catalysts for asymmetric reduction of carbonyl groups (Wills, M. (146) 139)

Ammonia oxidation

Selective oxidations with hydrogen peroxide and titanium silicalite catalyst (Mantegazza, M.A. (146) 223)

Ammonoximation

Selective oxidations with hydrogen peroxide and titanium silicalite catalyst (Mantegazza, M.A. (146) 223)

Anaerobic modification

Chiral environments at alkaloid-modified platinum surfaces (Wells, P.B. (146) 159)

Aqueous phase catalysis

Catalytic conversions in water. Part 11: Highly active water-soluble palladium-catalysts in the hydrocarboxylation of olefins and the alternating copolymerization of CO and olefins in water (Verspui, G. (146) 299)

Asymmetric

Novel catalysts for asymmetric reduction of carbonyl groups (Wills, M. (146) 139)

Asymmetric induction

Novel catalysts for asymmetric reduction of carbonyl groups (Wills, M. (146) 139)

Atomic charge

Hartree–Fock and density functional theory analysis of propylene insertion in Al(CH₃)₃/TiCl₃/TiO₂ (red.) in the presence of a Lewis base (De Oliveira Filho, A.P. (146) 191)

β-elimination

Direct comparison between the mechanism of hydrometalation and β-elimination in heterogeneous and homogeneous hydrogenation (Yu, J. (146) 199)

2-Butanamine

Asymmetric synthesis of (*S*)-alkylamines via reductive transamination of ketones over carbon-supported palladium catalysts (Göbölös, S. (146) 129)

- Benzene**
Alkylation of benzene catalysed by supported heteropolyacids (De Angelis, A. (146) 37)
- Bimetallic nanocatalysts**
Engineering uniform active sites in inorganic solid catalysts (Thomas, J.M. (146) 77)
- B3LYP**
Hartree–Fock and density functional theory analysis of propylene insertion in $\text{Al}(\text{CH}_3)_3/\text{TiCl}_3/\text{TiO}_2$ (red.) in the presence of a Lewis base (De Oliveira Filho, A.P. (146) 191)
- Brucine**
Chiral environments at alkaloid-modified platinum surfaces (Wells, P.B. (146) 159)
- Carbon dioxide**
Selective co-oligomerization of 1,3-butadiene and carbon dioxide with immobilized catalysts (Holzhey, N. (146) 25)
- Carbonyl complexes**
Well-defined carbonyl and dinitrogen complexes of ruthenium supported on dealuminated Y zeolite. Analogies and differences to the homogeneous case (Miessner, H. (146) 107)
- Catalysis**
Novel catalysts for asymmetric reduction of carbonyl groups (Wills, M. (146) 139)
Catalytic hydrogenation of acetylenic alcohols using palladium complex of fullerene C_{60} (Sulman, E. (146) 257)
Periphery-functionalized organometallic dendrimers for homogeneous catalysis (Van Koten, G. (146) 317)
Application of low temperature IR spectroscopy for studies of catalyst properties and dynamics on the example of aluminum halide complexes (Shilina, M.I. (146) 335)
Copper (II) chloride–dmf catalytic system in solution and on silica (Golubeva, E.N. (146) 343)
- Catalyst deactivation**
The versatile chemistry of metallocene polymerisation catalysts: new developments in half-sandwich complexes and catalyst heterogenisation (Bochmann, M. (146) 179)
- Catalyst heterogenisation**
The versatile chemistry of metallocene polymerisation catalysts: new developments in half-sandwich complexes and catalyst heterogenisation (Bochmann, M. (146) 179)
- Catalyst particle morphology**
Chiral environments at alkaloid-modified platinum surfaces (Wells, P.B. (146) 159)
- Catalytic**
Novel catalysts for asymmetric reduction of carbonyl groups (Wills, M. (146) 139)
- Catalytic hydrogenation**
Engineering uniform active sites in inorganic solid catalysts (Thomas, J.M. (146) 77)
- Catalytic hydrogenation of diphenylacetylene**
A new catalytic hybrid material from simple acid–base hydrolytic chemistry (Petrucci, M.G.L. (146) 309)
- Catalytic reaction mechanisms**
A new aspect of catalysis at designed surfaces: the role of gas phase molecules in surface catalytic reactions (Yamaguchi, A. (146) 65)
- C–Cl bond metathesis**
Copper (II) chloride–dmf catalytic system in solution and on silica (Golubeva, E.N. (146) 343)
- Chain transfer**
On the mechanisms of growing-chain-end isomerization and transfer reactions in propylene polymerization with isospecific, C_2 -symmetric zirconocene catalysts (Resconi, L. (146) 167)
- Characterization by EXAFS and FT-IR**
A new aspect of catalysis at designed surfaces: the role of gas phase molecules in surface catalytic reactions (Yamaguchi, A. (146) 65)
- Chiral amination**
Engineering uniform active sites in inorganic solid catalysts (Thomas, J.M. (146) 77)
- Chiral modifiers**
Asymmetric synthesis of (*S*)-alkylamines via reductive transamination of ketones over carbon-supported palladium catalysts (Göbölös, S. (146) 129)
- Chloroaluminates**
Recent developments in the use of non-aqueous ionic liquids for two-phase catalysis (Olivier, H. (146) 285)
- Cinchonidine**
Chiral environments at alkaloid-modified platinum surfaces (Wells, P.B. (146) 159)
- Cluster chemistry**
Giant Pd-561 clusters: onset to new catalytic properties (Starchevsky, M.K. (146) 229)
- Co/ Al_2O_3**
A new aspect of catalysis at designed surfaces: the role of gas phase molecules in surface catalytic reactions (Yamaguchi, A. (146) 65)
- Codeine**
Chiral environments at alkaloid-modified platinum surfaces (Wells, P.B. (146) 159)
- Complex**
Application of low temperature IR spectroscopy for studies of catalyst properties and dynamics on the example of aluminum halide complexes (Shilina, M.I. (146) 335)
- Complexes**
Copper (II) chloride–dmf catalytic system in solution and on silica (Golubeva, E.N. (146) 343)
- Conformational analysis**
Asymmetric synthesis of (*S*)-alkylamines via reductive transamination of ketones over carbon-supported palladium catalysts (Göbölös, S. (146) 129)
- Co-oligomerization**
Selective co-oligomerization of 1,3-butadiene and carbon dioxide with immobilized catalysts (Holzhey, N. (146) 25)
- Copper**
Copper (II) chloride–dmf catalytic system in solution and on silica (Golubeva, E.N. (146) 343)
- Cu^+ -ZSM-5**
Well defined carbonyl complexes in Ag^+ - and Cu^+ -exchanged ZSM-5 zeolite: a comparison with homogeneous counterparts (Bordiga, S. (146) 97)
- Cyclohexanone**
Selective oxidations with hydrogen peroxide and titanium silicalite catalyst (Mantegazza, M.A. (146) 223)
- Dealuminated zeolites**
Well-defined carbonyl and dinitrogen complexes of ruthenium supported on dealuminated Y zeolite. Analogies and differences to the homogeneous case (Miessner, H. (146) 107)

- Dehalogenation
Hydrogenation and dehalogenation of aryl chlorides and fluorides by the sol–gel entrapped RhCl_3 –Aliquat 336 ion pair catalyst (Blum, J. (146) 117)
- Density functional theory
Hartree–Fock and density functional theory analysis of propylene insertion in $\text{Al}(\text{CH}_3)_3/\text{TiCl}_3/\text{TiO}_2$ (red.) in the presence of a Lewis base (De Oliveira Filho, A.P. (146) 191)
- Dependence
The photocatalytic reforming of methanol (Dickinson, A. (146) 211)
- Depolymerization
Recent applications in catalysis of surface organometallic chemistry (Lefebvre, F. (146) 3)
- Design of active structures
A new aspect of catalysis at designed surfaces: the role of gas phase molecules in surface catalytic reactions (Yamaguchi, A. (146) 65)
- Diatereoselective hydrogenation
Stereocontrolled hydrogenation of prostaglandin intermediates over Ru–MCM-41 catalysts (Coman, S. (146) 247)
- Diels–Alder condensation
Recent developments in the use of non-aqueous ionic liquids for two-phase catalysis (Olivier, H. (146) 285)
- Dimerization
Recent developments in the use of non-aqueous ionic liquids for two-phase catalysis (Olivier, H. (146) 285)
- Dinitrogen complexes
Well-defined carbonyl and dinitrogen complexes of ruthenium supported on dealuminated Y zeolite. Analogies and differences to the homogeneous case (Miessner, H. (146) 107)
- Dmf
Copper (II) chloride–dmf catalytic system in solution and on silica (Golubeva, E.N. (146) 343)
- Dow Phenol Process
The mechanism of phenol formation in the Dow Phenol Process (Buijs, W. (146) 237)
- Electrophilicity
Theoretical study of ethylene polymerization on Ziegler–Natta catalysts and on metallocene catalysts (Shiga, A. (146) 325)
- Enantiomeric excess
Novel catalysts for asymmetric reduction of carbonyl groups (Wills, M. (146) 139)
- Enantioselective amination
Asymmetric synthesis of (*S*)-alkylamines via reductive transamination of ketones over carbon-supported palladium catalysts (Göbölös, S. (146) 129)
- Enantioselective catalytic hydrogenation
Preparation and characterisation of solvent-stabilised nanoparticulate platinum and palladium and their catalytic behaviour towards the enantioselective hydrogenation of ethyl pyruvate (Collier, P.J. (146) 149)
- Enantioselective hydrogenation
Sol–gel entrapped chiral rhodium and ruthenium complexes as recyclable catalysts for the hydrogenation of itaconic acid (Gelman, F. (146) 123)
Asymmetric synthesis of (*S*)-alkylamines via reductive transamination of ketones over carbon-supported palladium catalysts (Göbölös, S. (146) 129)
- Chiral environments at alkaloid-modified platinum surfaces (Wells, P.B. (146) 159)
- Epimerization
On the mechanisms of growing-chain-end isomerization and transfer reactions in propylene polymerization with isospecific, C_2 -symmetric zirconocene catalysts (Resconi, L. (146) 167)
- Epiquinidine
Chiral environments at alkaloid-modified platinum surfaces (Wells, P.B. (146) 159)
- Epoxidation
Selective oxidations with hydrogen peroxide and titanium silicalite catalyst (Mantegazza, M.A. (146) 223)
- Epoxidation catalysts
Engineering uniform active sites in inorganic solid catalysts (Thomas, J.M. (146) 77)
- EPR
Copper (II) chloride–dmf catalytic system in solution and on silica (Golubeva, E.N. (146) 343)
- Ethylene
Theoretical study of ethylene polymerization on Ziegler–Natta catalysts and on metallocene catalysts (Shiga, A. (146) 325)
- Ethyl pyruvate
Preparation and characterisation of solvent-stabilised nanoparticulate platinum and palladium and their catalytic behaviour towards the enantioselective hydrogenation of ethyl pyruvate (Collier, P.J. (146) 149)
- Formaldehyde
Homogeneous catalysis by evaporated solids (Ruf, S. (146) 271)
- Fullerene–Pd–phosphine
Catalytic hydrogenation of acetylenic alcohols using palladium complex of fullerene C_{60} (Sulman, E. (146) 257)
- Giant clusters
Giant Pd-561 clusters: onset to new catalytic properties (Starchevsky, M.K. (146) 229)
- Group VIII metals
Preparation and characterisation of solvent-stabilised nanoparticulate platinum and palladium and their catalytic behaviour towards the enantioselective hydrogenation of ethyl pyruvate (Collier, P.J. (146) 149)
- Half-sandwich complex
The versatile chemistry of metallocene polymerisation catalysts: new developments in half-sandwich complexes and catalyst heterogenisation (Bochmann, M. (146) 179)
- H_2 -chemisorption
Stereocontrolled hydrogenation of prostaglandin intermediates over Ru–MCM-41 catalysts (Coman, S. (146) 247)
- Heterogeneous catalysis
Direct comparison between the mechanism of hydrometalation and β -elimination in heterogeneous and homogeneous hydrogenation (Yu, J. (146) 199)
- Heteropolyacids
Alkylation of benzene catalysed by supported heteropolyacids (De Angelis, A. (146) 37)
- Homogeneous catalysis
Direct comparison between the mechanism of hydrometalation and β -elimination in heterogeneous and homogeneous hydrogenation (Yu, J. (146) 199)

Homogeneous vapour phase catalysis

Homogeneous catalysis by evaporated solids (Ruf, S. (146) 271)

Hydrocarbon partial oxidation

Partial oxidation of hydrocarbons on nickel: from surface science mechanistic studies to catalysis (Zaera, F. (146) 13)

Hydrocarboxylation

Catalytic conversions in water. Part 11: Highly active water-soluble palladium-catalysts in the hydrocarboxylation of olefins and the alternating copolymerization of CO and olefins in water (Verspui, G. (146) 299)

Hydrogenation

Hydrogenation and dehalogenation of aryl chlorides and fluorides by the sol–gel entrapped RhCl_3 –Aliquat 336 ion pair catalyst (Blum, J. (146) 117)

Novel catalysts for asymmetric reduction of carbonyl groups (Wills, M. (146) 139)

Direct comparison between the mechanism of hydrometalation and β -elimination in heterogeneous and homogeneous hydrogenation (Yu, J. (146) 199)

Hydrogen peroxide

Selective oxidations with hydrogen peroxide and titanium silicalite catalyst (Mantegazza, M.A. (146) 223)

Hydrometalation

Direct comparison between the mechanism of hydrometalation and β -elimination in heterogeneous and homogeneous hydrogenation (Yu, J. (146) 199)

Imidazolium salts

Recent developments in the use of non-aqueous ionic liquids for two-phase catalysis (Olivier, H. (146) 285)

Imidonitriles

Tailoring the pore-size distribution of high surface area microporous silicon imidonitriles by control of precursor composition (Vollmer, O. (146) 87)

Immobilized-catalyst

Hydrogenation and dehalogenation of aryl chlorides and fluorides by the sol–gel entrapped RhCl_3 –Aliquat 336 ion pair catalyst (Blum, J. (146) 117)

Immobilized catalysts

Sol–gel entrapped chiral rhodium and ruthenium complexes as recyclable catalysts for the hydrogenation of itaconic acid (Gelman, F. (146) 123)

Ionic liquids

Recent developments in the use of non-aqueous ionic liquids for two-phase catalysis (Olivier, H. (146) 285)

IR spectroscopy

Well-defined carbonyl and dinitrogen complexes of ruthenium supported on dealuminated Y zeolite. Analogies and differences to the homogeneous case (Miessner, H. (146) 107)

Application of low temperature IR spectroscopy for studies of catalyst properties and dynamics on the example of aluminum halide complexes (Shilina, M.I. (146) 335)

IR-spectroscopy

Copper (II) chloride–dmf catalytic system in solution and on silica (Golubeva, E.N. (146) 343)

Isotactic polypropylene

On the mechanisms of growing-chain-end isomerization and transfer reactions in propylene polymerization with isospecific, C_2 -symmetric zirconocene catalysts (Resconi, L. (146) 167)

 α -Ketoesters

Preparation and characterisation of solvent-stabilised nanoparticulate platinum and palladium and their catalytic behaviour towards the enantioselective hydrogenation of ethyl pyruvate (Collier, P.J. (146) 149)

Ketones

Novel catalysts for asymmetric reduction of carbonyl groups (Wills, M. (146) 139)

Kinetics

Copper (II) chloride–dmf catalytic system in solution and on silica (Golubeva, E.N. (146) 343)

Lewis base

Novel catalysts for asymmetric reduction of carbonyl groups (Wills, M. (146) 139)

Hartree–Fock and density functional theory analysis of propylene insertion in $\text{Al}(\text{CH}_3)_3/\text{TiCl}_3/\text{TiO}_2$ (red.) in the presence of a Lewis base (De Oliveira Filho, A.P. (146) 191)

Ligand metathesis

Synthesis and ligand metathetical reactions of supported transesterification catalyst models (Schwartz, J. (146) 45)

Lower alcohol oxidation

Giant Pd-561 clusters: onset to new catalytic properties (Starchevsky, M.K. (146) 229)

Lower aldehyde oxidation

Giant Pd-561 clusters: onset to new catalytic properties (Starchevsky, M.K. (146) 229)

Low temperature

Application of low temperature IR spectroscopy for studies of catalyst properties and dynamics on the example of aluminum halide complexes (Shilina, M.I. (146) 335)

Mechanism

Application of low temperature IR spectroscopy for studies of catalyst properties and dynamics on the example of aluminum halide complexes (Shilina, M.I. (146) 335)

Metal colloids

Preparation and characterisation of solvent-stabilised nanoparticulate platinum and palladium and their catalytic behaviour towards the enantioselective hydrogenation of ethyl pyruvate (Collier, P.J. (146) 149)

Metal hydrides

Recent applications in catalysis of surface organometallic chemistry (Lefebvre, F. (146) 3)

Metal nanoparticles

Preparation and characterisation of solvent-stabilised nanoparticulate platinum and palladium and their catalytic behaviour towards the enantioselective hydrogenation of ethyl pyruvate (Collier, P.J. (146) 149)

Metal vapour synthesis

Preparation and characterisation of solvent-stabilised nanoparticulate platinum and palladium and their catalytic behaviour towards the enantioselective hydrogenation of ethyl pyruvate (Collier, P.J. (146) 149)

Methanol

The photocatalytic reforming of methanol (Dickinson, A. (146) 211)

Homogeneous catalysis by evaporated solids (Ruf, S. (146) 271)

- Methoxyacetone**
Asymmetric synthesis of (*S*)-alkylamines via reductive transamination of ketones over carbon-supported palladium catalysts (Göbölös, S. (146) 129)
- Methoxyisopropylamine**
Asymmetric synthesis of (*S*)-alkylamines via reductive transamination of ketones over carbon-supported palladium catalysts (Göbölös, S. (146) 129)
- Methylethylketone**
Asymmetric synthesis of (*S*)-alkylamines via reductive transamination of ketones over carbon-supported palladium catalysts (Göbölös, S. (146) 129)
- Michael reactions**
The first example of Michael addition catalysed by modified Mg–Al hydrotalcite (Choudary, B.M. (146) 279)
- Microporous and mesoporous solids**
Engineering uniform active sites in inorganic solid catalysts (Thomas, J.M. (146) 77)
- Molecular modelling**
Chiral environments at alkaloid-modified platinum surfaces (Wells, P.B. (146) 159)
- Nb/SiO₂**
A new aspect of catalysis at designed surfaces: the role of gas phase molecules in surface catalytic reactions (Yamaguchi, A. (146) 65)
- Nickel**
Partial oxidation of hydrocarbons on nickel: from surface science mechanistic studies to catalysis (Zaera, F. (146) 13)
Recent developments in the use of non-aqueous ionic liquids for two-phase catalysis (Olivier, H. (146) 285)
- Nitrogen fixation**
Well-defined carbonyl and dinitrogen complexes of ruthenium supported on dealuminated Y zeolite. Analogies and differences to the homogeneous case (Miessner, H. (146) 107)
- Olefin dimerization**
Recent developments in the use of non-aqueous ionic liquids for two-phase catalysis (Olivier, H. (146) 285)
- Olefins**
Catalytic conversions in water. Part 11: Highly active water-soluble palladium-catalysts in the hydrocarboxylation of olefins and the alternating copolymerization of CO and olefins in water (Verspui, G. (146) 299)
- Organometallic dendrimer**
Periphery-functionalized organometallic dendrimers for homogeneous catalysis (Van Koten, G. (146) 317)
- Organometallic–inorganic hybrid material**
A new catalytic hybrid material from simple acid–base hydrolytic chemistry (Petrucci, M.G.L. (146) 309)
- ORMOSIL**
Silica tethered with poly(ethylene and/propylene) oxide as supports for polyoxometalates in catalytic oxidation (Cohen, M. (146) 291)
- Oxidation**
Silica tethered with poly(ethylene and/propylene) oxide as supports for polyoxometalates in catalytic oxidation (Cohen, M. (146) 291)
- Oxycodone**
Chiral environments at alkaloid-modified platinum surfaces (Wells, P.B. (146) 159)
- Palladium**
Preparation and characterisation of solvent-stabilised nanoparticulate platinum and palladium and their catalytic behaviour towards the enantioselective hydrogenation of ethyl pyruvate (Collier, P.J. (146) 149)
Catalytic conversions in water. Part 11: Highly active water-soluble palladium-catalysts in the hydrocarboxylation of olefins and the alternating copolymerization of CO and olefins in water (Verspui, G. (146) 299)
- Palladium catalyst**
Selective co-oligomerization of 1,3-butadiene and carbon dioxide with immobilized catalysts (Holzhey, N. (146) 25)
Asymmetric synthesis of (*S*)-alkylamines via reductive transamination of ketones over carbon-supported palladium catalysts (Göbölös, S. (146) 129)
- Palladium clusters**
Giant Pd-561 clusters: onset to new catalytic properties (Starchevsky, M.K. (146) 229)
- Particle size distributions**
Preparation and characterisation of solvent-stabilised nanoparticulate platinum and palladium and their catalytic behaviour towards the enantioselective hydrogenation of ethyl pyruvate (Collier, P.J. (146) 149)
- Pd colloids**
Hydrogenation of acetylene alcohols with novel Pd colloidal catalysts prepared in block copolymers micelles (Sulman, E. (146) 265)
- Periphery**
Periphery-functionalized organometallic dendrimers for homogeneous catalysis (Van Koten, G. (146) 317)
- Phenol formation**
The mechanism of phenol formation in the Dow Phenol Process (Buijs, W. (146) 237)
- Photocatalytic decomposition**
The photocatalytic reforming of methanol (Dickinson, A. (146) 211)
- Phosphinamides**
Novel catalysts for asymmetric reduction of carbonyl groups (Wills, M. (146) 139)
- Platinum**
Preparation and characterisation of solvent-stabilised nanoparticulate platinum and palladium and their catalytic behaviour towards the enantioselective hydrogenation of ethyl pyruvate (Collier, P.J. (146) 149)
- Polyether**
Silica tethered with poly(ethylene and/propylene) oxide as supports for polyoxometalates in catalytic oxidation (Cohen, M. (146) 291)
- Polyethylene**
The versatile chemistry of metallocene polymerisation catalysts: new developments in half-sandwich complexes and catalyst heterogenisation (Bochmann, M. (146) 179)
- Polymerisation catalysis**
The versatile chemistry of metallocene polymerisation catalysts: new developments in half-sandwich complexes and catalyst heterogenisation (Bochmann, M. (146) 179)

Polymerization

Recent applications in catalysis of surface organometallic chemistry (Lefebvre, F. (146) 3)

Polymer micelles

Hydrogenation of acetylene alcohols with novel Pd colloidal catalysts prepared in block copolymers micelles (Sulman, E. (146) 265)

Polyoxometalate

Silica tethered with poly(ethylene and/propylene) oxide as supports for polyoxometalates in catalytic oxidation (Cohen, M. (146) 291)

Polypropene

The versatile chemistry of metallocene polymerisation catalysts: new developments in half-sandwich complexes and catalyst heterogenisation (Bochmann, M. (146) 179)

Pore-size distribution

Tailoring the pore-size distribution of high surface area microporous silicon imidonitrides by control of precursor composition (Vollmer, O. (146) 87)

Propylene oxide

Selective oxidations with hydrogen peroxide and titanium silicalite catalyst (Mantegazza, M.A. (146) 223)

Prostaglandin intermediates

Stereocontrolled hydrogenation of prostaglandin intermediates over Ru–MCM-41 catalysts (Coman, S. (146) 247)

Pt

Evidence for new surface organotin and germanium complexes with functional groups grafted at the surface of Pt and Rh (Tena, E. (146) 53)

Pt/silica

Chiral environments at alkaloid-modified platinum surfaces (Wells, P.B. (146) 159)

Redox catalysts

Engineering uniform active sites in inorganic solid catalysts (Thomas, J.M. (146) 77)

Reductive transamination

Asymmetric synthesis of (*S*)-alkylamines via reductive transamination of ketones over carbon-supported palladium catalysts (Göbbölös, S. (146) 129)

Rehydration

The first example of Michael addition catalysed by modified Mg–Al hydrotalcite (Choudary, B.M. (146) 279)

Rh

Evidence for new surface organotin and germanium complexes with functional groups grafted at the surface of Pt and Rh (Tena, E. (146) 53)

Rhodium

Hydrogenation and dehalogenation of aryl chlorides and fluorides by the sol–gel entrapped RhCl_3 –Aliquat 336 ion pair catalyst (Blum, J. (146) 117)

Sol–gel entrapped chiral rhodium and ruthenium complexes as recyclable catalysts for the hydrogenation of itaconic acid (Gelman, F. (146) 123)

Ru–MCM-41 catalysts

Stereocontrolled hydrogenation of prostaglandin intermediates over Ru–MCM-41 catalysts (Coman, S. (146) 247)

Ruthenium

Sol–gel entrapped chiral rhodium and ruthenium complexes as recyclable catalysts for the hydrogenation of itaconic acid (Gelman, F. (146) 123)

Ruthenium complexes

Well-defined carbonyl and dinitrogen complexes of ruthenium supported on dealuminated Y zeolite. Analogies and differences to the homogeneous case (Miessner, H. (146) 107)

Schiff base

Asymmetric synthesis of (*S*)-alkylamines via reductive transamination of ketones over carbon-supported palladium catalysts (Göbbölös, S. (146) 129)

Selective hydrogenation

Catalytic hydrogenation of acetylenic alcohols using palladium complex of fullerene C_{60} (Sulman, E. (146) 257)

Hydrogenation of acetylene alcohols with novel Pd colloidal catalysts prepared in block copolymers micelles (Sulman, E. (146) 265)

Silica support

The versatile chemistry of metallocene polymerisation catalysts: new developments in half-sandwich complexes and catalyst heterogenisation (Bochmann, M. (146) 179)

Sodium

Homogeneous catalysis by evaporated solids (Ruf, S. (146) 271)

Sol–gel

Hydrogenation and dehalogenation of aryl chlorides and fluorides by the sol–gel entrapped RhCl_3 –Aliquat 336 ion pair catalyst (Blum, J. (146) 117)

Sol–gel entrapped chiral rhodium and ruthenium complexes as recyclable catalysts for the hydrogenation of itaconic acid (Gelman, F. (146) 123)

Silica tethered with poly(ethylene and/propylene) oxide as supports for polyoxometalates in catalytic oxidation (Cohen, M. (146) 291)

Solid state

Application of low temperature IR spectroscopy for studies of catalyst properties and dynamics on the example of aluminum halide complexes (Shilina, M.I. (146) 335)

Solution equilibrium

Copper (II) chloride–dmf catalytic system in solution and on silica (Golubeva, E.N. (146) 343)

Stereospecificity

On the mechanisms of growing-chain-end isomerization and transfer reactions in propylene polymerization with isospecific, C_2 -symmetric zirconocene catalysts (Resconi, L. (146) 167)

Structure

Application of low temperature IR spectroscopy for studies of catalyst properties and dynamics on the example of aluminum halide complexes (Shilina, M.I. (146) 335)

Copper (II) chloride–dmf catalytic system in solution and on silica (Golubeva, E.N. (146) 343)

Supported catalysts

Synthesis and ligand metathetical reactions of supported transesterification catalyst models (Schwartz, J. (146) 45)

Supported complexes

Copper (II) chloride–dmf catalytic system in solution and on silica (Golubeva, E.N. (146) 343)

- Supported Rh(I) complexes
A new catalytic hybrid material from simple acid–base hydrolytic chemistry (Petrucci, M.G.L. (146) 309)
- Surface catalysis
Giant Pd-561 clusters: onset to new catalytic properties (Starchevsky, M.K. (146) 229)
- Surface chemistry
Well-defined carbonyl and dinitrogen complexes of ruthenium supported on dealuminated Y zeolite. Analogies and differences to the homogeneous case (Miessner, H. (146) 107)
- Surface organotin
Evidence for new surface organotin and germanium complexes with functional groups grafted at the surface of Pt and Rh (Tena, E. (146) 53)
- Surface tin complexes
Synthesis and ligand metathetical reactions of supported transesterification catalyst models (Schwartz, J. (146) 45)
- Surface titanium complexes
Synthesis and ligand metathetical reactions of supported transesterification catalyst models (Schwartz, J. (146) 45)
- Surface zirconium complexes
Synthesis and ligand metathetical reactions of supported transesterification catalyst models (Schwartz, J. (146) 45)
- Temperature-programmed oxidation
Stereocontrolled hydrogenation of prostaglandin intermediates over Ru–MCM-41 catalysts (Coman, S. (146) 247)
- Temperature-programmed reduction
Stereocontrolled hydrogenation of prostaglandin intermediates over Ru–MCM-41 catalysts (Coman, S. (146) 247)
- Thermal ammonolysis
Tailoring the pore-size distribution of high surface area microporous silicon imidonitrides by control of precursor composition (Vollmer, O. (146) 87)
- Ti-silicalite
Selective oxidations with hydrogen peroxide and titanium silicalite catalyst (Mantegazza, M.A. (146) 223)
- Titanium dioxide
Hartree–Fock and density functional theory analysis of propylene insertion in $\text{Al}(\text{CH}_3)_3/\text{TiCl}_3/\text{TiO}_2$ (red.) in the presence of a Lewis base (De Oliveira Filho, A.P. (146) 191)
- Titanosilsesquioxanes
Engineering uniform active sites in inorganic solid catalysts (Thomas, J.M. (146) 77)
- Toluene
The mechanism of phenol formation in the Dow Phenol Process (Buijs, W. (146) 237)
- Tppts
Catalytic conversions in water. Part 11: Highly active water-soluble palladium-catalysts in the hydrocarboxylation of olefins and the alternating copolymerization of CO and olefins in water (Verspui, G. (146) 299)
- Transesterification
Synthesis and ligand metathetical reactions of supported transesterification catalyst models (Schwartz, J. (146) 45)
- Transfer
Novel catalysts for asymmetric reduction of carbonyl groups (Wills, M. (146) 139)
- Transmission electron microscopy
Preparation and characterisation of solvent-stabilised nanoparticulate platinum and palladium and their catalytic behaviour towards the enantioselective hydrogenation of ethyl pyruvate (Collier, P.J. (146) 149)
Stereocontrolled hydrogenation of prostaglandin intermediates over Ru–MCM-41 catalysts (Coman, S. (146) 247)
- Two-phase catalysis
Recent developments in the use of non-aqueous ionic liquids for two-phase catalysis (Olivier, H. (146) 285)
- Ultra-high vacuum
Partial oxidation of hydrocarbons on nickel: from surface science mechanistic studies to catalysis (Zaera, F. (146) 13)
- UV–Vis-spectroscopy
Copper (II) chloride–dmf catalytic system in solution and on silica (Golubeva, E.N. (146) 343)
- XPS
Stereocontrolled hydrogenation of prostaglandin intermediates over Ru–MCM-41 catalysts (Coman, S. (146) 247)
- XRD
Stereocontrolled hydrogenation of prostaglandin intermediates over Ru–MCM-41 catalysts (Coman, S. (146) 247)
- Ziegler–Natta catalysis
Hartree–Fock and density functional theory analysis of propylene insertion in $\text{Al}(\text{CH}_3)_3/\text{TiCl}_3/\text{TiO}_2$ (red.) in the presence of a Lewis base (De Oliveira Filho, A.P. (146) 191)
- Ziegler–Natta catalysts
Theoretical study of ethylene polymerization on Ziegler–Natta catalysts and on metallocene catalysts (Shiga, A. (146) 325)
- Zirconocene
On the mechanisms of growing-chain-end isomerization and transfer reactions in propylene polymerization with isospecific, C_2 -symmetric zirconocene catalysts (Resconi, L. (146) 167)
- Zirconocene catalysts
The versatile chemistry of metallocene polymerisation catalysts: new developments in half-sandwich complexes and catalyst heterogenisation (Bochmann, M. (146) 179)
- ZSM-5 zeolite
Well defined carbonyl complexes in Ag^+ - and Cu^+ -exchanged ZSM-5 zeolite: a comparison with homogeneous counterparts (Bordiga, S. (146) 97)