

Subject index

Acetalization

Synthesis and characterization of chiral bis-ferrocenyl triphosphine Ni(II) and Rh(III) complexes and their use as catalyst precursors for acetalization reactions (Barbaro, P. (145) 139)

Acetone

Dehydrogenation of alcohols over potassium zinc aluminum silicate hydroxide (Hashimoto, K. (145) 273)

Effects of the surface structure and experimental parameters on the isopropanol decomposition catalyzed with sol-gel MgO (Wang, J.A. (145) 291)

Acidic–basic properties

Effects of the surface structure and experimental parameters on the isopropanol decomposition catalyzed with sol-gel MgO (Wang, J.A. (145) 291)

Acid-induced oligomerization of vanadium(V)

The role of vanadium(V) in the catalysed oxidation of hydrocarbons (Csányi, L.J. (145) 229)

Acidity

Solid acid catalysts from clays. Part 3: benzene alkylation with ethylene catalyzed by aluminum and aluminum gallium pillared bentonites (Lenarda, M. (145) 237)

Activity enhancement

Study of activity enhancement by hydrogen in propylene polymerization using stopped-flow and conventional methods (Mori, H. (145) 153)

Deviation of hydrogen response during propylene polymerization with various Ziegler–Natta catalysts (Mori, H. (145) 211)

Acyclic olefins

A convenient catalyst system employing RuCl₃ or RuBr₃ for metathesis of acyclic olefins (Nubel, P.O. (145) 323)

Additive telluromolybdates

The Rietveld analysis of crystal structure of an additive telluromolybdate CoTeMoO₆ (Hayashi, H. (145) 301)

Alkali carbonate

Reduction of alkali metal carbonate to methane with water in the presence of Raney alloy (Kudo, K. (145) 159)

Alkali formates

Reduction of alkali metal carbonate to methane with water in the presence of Raney alloy (Kudo, K. (145) 159)

Alkene epoxidation

Epoxidation of alkenes catalyzed by heteropolyoxometalate as pillars in layered double hydroxides (Watanabe, Y. (145) 281)

Alkylation

Solid acid catalysts from clays. Part 3: benzene alkylation with ethylene catalyzed by aluminum and aluminum gallium pillared bentonites (Lenarda, M. (145) 237)

Alkynes

Oxidation of alkynes by cobalt acetate bromide: a new mode of action for an important industrial catalyst (Li, P. (145) 111)

Allylic alkylation

Molten salts (ionic liquids) to improve the activity, selectivity and stability of the palladium catalysed Trost–Tsuji C–C coupling in biphasic media (De Bellefon, C. (145) 121)

²⁷Al NMR MAS

²⁷Al NMR MAS study of the surface Al complexes formed in reaction of organoaluminium compounds with supported TiCl₄/MgCl₂ catalyst (Potapov, A.G. (145) 147)

Alumina

Characterization of Ni, Mo and Ni–Mo catalysts supported on alumina-pillared α-zirconium phosphate and reactivity for the thiophene HDS reaction (Mérida-Robles, J. (145) 169)

Artificial enzymes

Remarkable phosphodiester hydrolysis activity of a novel Ce^{IV} complex in neutral aqueous solutions (Baykal, U. (145) 309)

Asymmetric catalysis

Catalytic enantioselective cyclopropanation of olefins using *N*-salicylidene-4-amino[2.2]paracyclophane as an asymmetric ligand (Masterson, D.S. (145) 75)

Asymmetric synthesis

Synthesis and characterization of chiral bis-ferrocenyl triphosphine Ni(II) and Rh(III) complexes and their use as catalyst precursors for acetalization reactions (Barbaro, P. (145) 139)

Atomic coordinates

The Rietveld analysis of crystal structure of an additive telluromolybdate CoTeMoO₆ (Hayashi, H. (145) 301)

Base catalyst

Dehydrogenation of alcohols over potassium zinc aluminum silicate hydroxide (Hashimoto, K. (145) 273)

Benzil

Oxidation of alkynes by cobalt acetate bromide: a new mode of action for an important industrial catalyst (Li, P. (145) 111)

Biphasic catalysis

Molten salts (ionic liquids) to improve the activity, selectivity and stability of the palladium catalysed Trost–Tsuji C–C coupling in biphasic media (De Bellefon, C. (145) 121)

- Bis(diphenylphosphino)methane ligand**
Hydrogenation of organic substrates by an heterogenized catalyst based on a bis(diphenylphosphino)methane polymer-bound palladium(II) complex (Benvenuti, F. (145) 221)
- Bisviologen-linked cationic zinc porphyrins**
Hydrogen evolution using photoinduced electron transfer in water soluble bisviologen-linked cationic zinc porphyrin (Amao, Y. (145) 51)
- Bovine serum albumin**
Effect of bovine serum albumin on particulate methane monooxygenase from *Methylosinus trichosporium* OB3b (Takeguchi, M. (145) 45)
- 1,3-Butadiene**
Telomerization of butadiene with methanol catalysed by cationic palladium complexes containing a bidentate phosphinoamino ligand (Basato, M. (145) 313)
- Butylviologen-linked cationic zinc porphyrins**
Hydrogen evolution using photoinduced electron transfer in water soluble bisviologen-linked cationic zinc porphyrin (Amao, Y. (145) 51)
- Catalysis**
A review of modern transition-metal nanoclusters: their synthesis, characterization, and applications in catalysis (Aiken III, J.D. (145) 1)
Characterization of Ni, Mo and Ni–Mo catalysts supported on alumina-pillared α -zirconium phosphate and reactivity for the thiophene HDS reaction (Mérida-Robles, J. (145) 169)
- Catalysis of oxidation of hydrocarbons by O₂ and decomposition of *t*-butylhydroperoxide with AlCl₃ and ion-pair complexes Al–V(V)**
The role of vanadium(V) in the catalysed oxidation of hydrocarbons (Csányi, L.J. (145) 229)
- Catalyst**
A convenient catalyst system employing RuCl₃ or RuBr₃ for metathesis of acyclic olefins (Nubel, P.O. (145) 323)
- Catalyst recycling**
Heterogeneous catalyst system for Heck reaction using supported ethylene glycol phase Pd/TPPTS catalyst with inorganic base (Bhanage, B.M. (145) 69)
- Catalyst reuse**
Catalysis of dendrimer-bound Pd(II) complex. Selective hydrogenation of conjugated dienes to monoenes (Mizugaki, T. (145) 329)
- Catalytic activity**
A review of modern transition-metal nanoclusters: their synthesis, characterization, and applications in catalysis (Aiken III, J.D. (145) 1)
- Catalytic lifetime**
A review of modern transition-metal nanoclusters: their synthesis, characterization, and applications in catalysis (Aiken III, J.D. (145) 1)
- Cationic palladium complexes**
Telomerization of butadiene with methanol catalysed by cationic palladium complexes containing a bidentate phosphinoamino ligand (Basato, M. (145) 313)
- C–C coupling**
Molten salts (ionic liquids) to improve the activity, selectivity and stability of the palladium catalysed Trost–Tsuji C–C coupling in biphasic media (De Bellefon, C. (145) 121)
- Chain-transfer reaction**
Deviation of hydrogen response during propylene polymerization with various Ziegler–Natta catalysts (Mori, H. (145) 211)
- Characterization**
A review of modern transition-metal nanoclusters: their synthesis, characterization, and applications in catalysis (Aiken III, J.D. (145) 1)
- Chiral [2.2]paracyclophane derivatives**
Catalytic enantioselective cyclopropanation of olefins using *N*-salicylidene-4-amino[2.2]paracyclophane as an asymmetric ligand (Masterson, D.S. (145) 75)
- Chiral Schiff-base**
Catalytic enantioselective cyclopropanation of olefins using *N*-salicylidene-4-amino[2.2]paracyclophane as an asymmetric ligand (Masterson, D.S. (145) 75)
- Chiral triphosphines**
Synthesis and characterization of chiral bis-ferrocenyl triphosphine Ni(II) and Rh(III) complexes and their use as catalyst precursors for acetalization reactions (Barbaro, P. (145) 139)
- Chromium**
Synthesis and catalytic activity of dinitosylchromium complexes of the type [Cr(NO)₂(CO)₂L₂]²⁺, {Cr(NO)₂(OR)₃}_n (R = Et, *i*-Pr) and Cr(NO)₂(O₂CPh)₂ (Keller, A. (145) 127)
- Cinnamaldehyde**
Hydrogenation of organic substrates by an heterogenized catalyst based on a bis(diphenylphosphino)methane polymer-bound palladium(II) complex (Benvenuti, F. (145) 221)
- CO adsorption on Pt–Sn**
Influence of oxychlorination treatment on the surface and bulk properties of a Pt–Sn/Al₂O₃ catalyst (Arteaga, G.J. (145) 183)
- Cobalt acetate bromide**
Oxidation of alkynes by cobalt acetate bromide: a new mode of action for an important industrial catalyst (Li, P. (145) 111)
- Cobalt-catalyzed oxidation**
Oxidation of alkynes by cobalt acetate bromide: a new mode of action for an important industrial catalyst (Li, P. (145) 111)
- Conjugated dienes**
Catalysis of dendrimer-bound Pd(II) complex. Selective hydrogenation of conjugated dienes to monoenes (Mizugaki, T. (145) 329)
- Copper**
Effect of bovine serum albumin on particulate methane monooxygenase from *Methylosinus trichosporium* OB3b (Takeguchi, M. (145) 45)
- CO₂ reduction**
Selective formation of methane in reduction of CO₂ with water by Raney alloy catalyst (Kudo, K. (145) 257)
- CoTeMoO₆**
The Rietveld analysis of crystal structure of an additive telluromolybdate CoTeMoO₆ (Hayashi, H. (145) 301)
- Coupling**
The activity of H₄SiW₁₂O₄₀ for the coupling of formaldehyde and methyl formate to methyl glycolate and methyl methoxy acetate (He, D. (145) 335)

Crystal structure

The Rietveld analysis of crystal structure of an additive telluromolybdate CoTeMoO_6 (Hayashi, H. (145) 301)

Cyclooctene

Catalytic air oxidation of cyclooctene using *cis*-[$\text{MoO}_2(\text{SAL-SH})(\text{DMF})$] (SAL-SH = salicylidene salicyloyl hydrazinato-) and its zeolite-Y encapsulated composite (Rao, S.N. (145) 203)

Dehydrogenation

Dehydrogenation of alcohols over potassium zinc aluminum silicate hydroxide (Hashimoto, K. (145) 273)

Effects of the surface structure and experimental parameters on the isopropanol decomposition catalyzed with sol-gel MgO (Wang, J.A. (145) 291)

Dendrimer-bound Pd(II) complex

Catalysis of dendrimer-bound Pd(II) complex. Selective hydrogenation of conjugated dienes to monoenes (Mizugaki, T. (145) 329)

Diketone

Oxidation of alkynes by cobalt acetate bromide: a new mode of action for an important industrial catalyst (Li, P. (145) 111)

Diphenylphosphinomethylated dendrimer

Catalysis of dendrimer-bound Pd(II) complex. Selective hydrogenation of conjugated dienes to monoenes (Mizugaki, T. (145) 329)

Dormant sites

Study of activity enhancement by hydrogen in propylene polymerization using stopped-flow and conventional methods (Mori, H. (145) 153)

Electrocatalytic proton reduction

Electrocatalytic proton reduction by phthalocyanine cobalt derivatives incorporated in poly(4-vinylpyridine-co-styrene) film (Zhao, F. (145) 245)

Electron transfer

Electrocatalytic proton reduction by phthalocyanine cobalt derivatives incorporated in poly(4-vinylpyridine-co-styrene) film (Zhao, F. (145) 245)

Ether-ester

Formation and hydrolysis of 4-methoxyphenylacetic acid butyl ester reacting from 4-methoxyphenylacetic acid and *n*-bromobutane using triphase catalysis (Wu, H.-S. (145) 95)

Ethylbenzene

Solid acid catalysts from clays. Part 3: benzene alkylation with ethylene catalyzed by aluminum and aluminum gallium pillared bentonites (Lenarda, M. (145) 237)

Ethylene

Catalytic systems supported on MgCl_2 doped with ZnCl_2 for olefin polymerization (Fregonese, D. (145) 265)

Ethylidene complexes

Synthesis and catalytic activity of dinitosylchromium complexes of the type $[\text{Cr}(\text{NO})_2(\text{CO})_2\text{L}_2]^{2+}$, $\{\text{Cr}(\text{NO})_2(\text{OR})_2\}_n$ ($\text{R} = \text{Et}$, *i*-Pr) and $\text{Cr}(\text{NO})_2(\text{O}_2\text{CPh})_2$ (Keller, A. (145) 127)

Fluorous phase catalysis

Fluorous biphasic hydrogenation of 1-alkenes using novel fluorous derivatives of Wilkinson's catalyst (Richter, B. (145) 317)

Formaldehyde

The activity of $\text{H}_4\text{SiW}_{12}\text{O}_{40}$ for the coupling of formaldehyde and methyl formate to methyl glycolate and methyl methoxy acetate (He, D. (145) 335)

Gold

Combined homogeneous and heterogeneous catalysts. Rhodium carbonyl thiolate complexes tethered on silica-supported metal heterogeneous catalysts: olefin hydroformylation and arene hydrogenation (Gao, H. (145) 83)

HDS

Characterization of Ni, Mo and Ni-Mo catalysts supported on alumina-pillared α -zirconium phosphate and reactivity for the thiophene HDS reaction (Mérida-Robles, J. (145) 169)

Heck reaction

Heterogeneous catalyst system for Heck reaction using supported ethylene glycol phase Pd/TPPTS catalyst with inorganic base (Bhanage, B.M. (145) 69)

Heterogeneous catalysis

A review of modern transition-metal nanoclusters: their synthesis, characterization, and applications in catalysis (Aiken III, J.D. (145) 1)

Heterogenized catalysts

Hydrogenation of organic substrates by an heterogenized catalyst based on a bis(diphenylphosphino)methane polymer-bound palladium(II) complex (Benvenuti, F. (145) 221)

Heteropolyoxometalate

Epoxidation of alkenes catalyzed by heteropolyoxometalate as pillars in layered double hydroxides (Watanabe, Y. (145) 281)

Homogeneous catalysis

A review of modern transition-metal nanoclusters: their synthesis, characterization, and applications in catalysis (Aiken III, J.D. (145) 1)

Molten salts (ionic liquids) to improve the activity, selectivity and stability of the palladium catalyzed Trost-Tsuji C-C coupling in biphasic media (De Bellefon, C. (145) 121)

Synthesis and characterization of chiral bis-ferrocenyl triphosphine Ni(II) and Rh(III) complexes and their use as catalyst precursors for acetalization reactions (Barbaro, P. (145) 139)

Hydroformylation

Combined homogeneous and heterogeneous catalysts. Rhodium carbonyl thiolate complexes tethered on silica-supported metal heterogeneous catalysts: olefin hydroformylation and arene hydrogenation (Gao, H. (145) 83)

Hydrogen

Study of activity enhancement by hydrogen in propylene polymerization using stopped-flow and conventional methods (Mori, H. (145) 153)

Hydrogenase

Hydrogen evolution using photoinduced electron transfer in water soluble bisviologen-linked cationic zinc porphyrin (Amao, Y. (145) 51)

Hydrogenation

Hydrogenation of organic substrates by an heterogenized catalyst based on a bis(diphenylphosphino)methane polymer-bound palladium(II) complex (Benvenuti, F. (145) 221)

Fluorous biphasic hydrogenation of 1-alkenes using novel fluorous derivatives of Wilkinson's catalyst (Richter, B. (145) 317)

Hydrogen response

Deviation of hydrogen response during propylene polymerization with various Ziegler–Natta catalysts (Mori, H. (145) 211)

Hydrolysis

Formation and hydrolysis of 4-methoxyphenylacetic acid butyl ester reacting from 4-methoxyphenylacetic acid and *n*-bromobutane using triphase catalysis (Wu, H.-S. (145) 95)

Imprinted polymer catalysts for the hydrolysis of *p*-nitrophenyl acetate (Kawanami, Y. (145) 107)

Intramolecular electron transfer

Hydrogen evolution using photoinduced electron transfer in water soluble bisviologen-linked cationic zinc porphyrin (Amao, Y. (145) 51)

Isopropanol decomposition

Effects of the surface structure and experimental parameters on the isopropanol decomposition catalyzed with sol–gel MgO (Wang, J.A. (145) 291)

Lanthanide complexes

Remarkable phosphodiester hydrolysis activity of a novel Ce^{IV} complex in neutral aqueous solutions (Baykal, U. (145) 309)

Layered double hydroxides

Epoxidation of alkenes catalyzed by heteropolyoxometalate as pillars in layered double hydroxides (Watanabe, Y. (145) 281)

Magnesium chloride

Catalytic systems supported on MgCl₂ doped with ZnCl₂ for olefin polymerization (Fregonese, D. (145) 265)

Metathesis

Synthesis and catalytic activity of dinitosylchromium complexes of the type [Cr(NO)₂(CO)₂L₂]²⁺, {Cr(NO)₂(OR)₂}_n (R = Et, *i*-Pr) and Cr(NO)₂(O₂CPh)₂ (Keller, A. (145) 127)

Methanation

Reduction of alkali metal carbonate to methane with water in the presence of Raney alloy (Kudo, K. (145) 159)

Methane formation

Selective formation of methane in reduction of CO₂ with water by Raney alloy catalyst (Kudo, K. (145) 257)

Methyl formate

The activity of H₄SiW₁₂O₄₀ for the coupling of formaldehyde and methyl formate to methyl glycolate and methyl methoxy acetate (He, D. (145) 335)

Methyl glycolate

The activity of H₄SiW₁₂O₄₀ for the coupling of formaldehyde and methyl formate to methyl glycolate and methyl methoxy acetate (He, D. (145) 335)

Methyl methoxy acetate

The activity of H₄SiW₁₂O₄₀ for the coupling of formaldehyde and methyl formate to methyl glycolate and methyl methoxy acetate (He, D. (145) 335)

Methylosinus trichosporium OB3b

Effect of bovine serum albumin on particulate methane monooxygenase from *Methylosinus trichosporium* OB3b (Takeguchi, M. (145) 45)

MgCl₂-supported Ziegler catalyst

Study of activity enhancement by hydrogen in propylene polymerization using stopped-flow and conventional methods (Mori, H. (145) 153)

MgO

Effects of the surface structure and experimental parameters on the isopropanol decomposition catalyzed with sol–gel MgO (Wang, J.A. (145) 291)

Mica

Dehydrogenation of alcohols over potassium zinc aluminum silicate hydroxide (Hashimoto, K. (145) 273)

Molecular imprinting

Imprinted polymer catalysts for the hydrolysis of *p*-nitrophenyl acetate (Kawanami, Y. (145) 107)

Molten salt

Molten salts (ionic liquids) to improve the activity, selectivity and stability of the palladium catalysed Trost–Tsuji C–C coupling in biphasic media (De Bellefon, C. (145) 121)

Molybdenum

Characterization of Ni, Mo and Ni–Mo catalysts supported on alumina-pillared α -zirconium phosphate and reactivity for the thiophene HDS reaction (Mérida-Robles, J. (145) 169)

Nanocolloids

A review of modern transition-metal nanoclusters: their synthesis, characterization, and applications in catalysis (Aiken III, J.D. (145) 1)

Nickel

Combined homogeneous and heterogeneous catalysts. Rhodium carbonyl thiolate complexes tethered on silica-supported metal heterogeneous catalysts: olefin hydroformylation and arene hydrogenation (Gao, H. (145) 83)

Synthesis and characterization of chiral bis-ferrocenyl triphosphine Ni(II) and Rh(III) complexes and their use as catalyst precursors for acetalization reactions (Barbaro, P. (145) 139)

Characterization of Ni, Mo and Ni–Mo catalysts supported on alumina-pillared α -zirconium phosphate and reactivity for the thiophene HDS reaction (Mérida-Robles, J. (145) 169)

Nitrobenzene

Hydrogenation of organic substrates by a heterogenized catalyst based on a bis(diphenylphosphino)methane polymer-bound palladium(II) complex (Benvenuti, F. (145) 221)

Nitrosyl complexes

Synthesis and catalytic activity of dinitosylchromium complexes of the type [Cr(NO)₂(CO)₂L₂]²⁺, {Cr(NO)₂(OR)₂}_n (R = Et, *i*-Pr) and Cr(NO)₂(O₂CPh)₂ (Keller, A. (145) 127)

N-Salicylidene copper(II) complexes

Catalytic enantioselective cyclopropanation of olefins using *N*-salicylidene-4-amino[2.2]paracyclophane as an asymmetric ligand (Masterson, D.S. (145) 75)

Olefin metathesis

A convenient catalyst system employing RuCl₃ or RuBr₃ for metathesis of acyclic olefins (Nubel, P.O. (145) 323)

Olefin polymerization

²⁷Al NMR MAS study of the surface Al complexes formed in reaction of organoaluminium compounds with supported TiCl₄/MgCl₂ catalyst (Potapov, A.G. (145) 147)

Oligomerization

Synthesis and catalytic activity of dinitosylchromium complexes of the type [Cr(NO)₂(CO)₂L₂]²⁺, {Cr(NO)₂(OR)₂}_n (R = Et, *i*-Pr) and Cr(NO)₂(O₂CPh)₂ (Keller, A. (145) 127)

Oxidation

Catalytic air oxidation of cyclooctene using *cis*-[MoO₂(SAL-SH)(DMF)] (SAL-SH = salicylidene salicyloyl hydrazinato-) and its zeolite-Y encapsulated composite (Rao, S.N. (145) 203)

Palladium

Heterogeneous catalyst system for Heck reaction using supported ethylene glycol phase Pd/TPPTS catalyst with inorganic base (Bhanage, B.M. (145) 69)

Combined homogeneous and heterogeneous catalysts. Rhodium carbonyl thiolate complexes tethered on silica-supported metal heterogeneous catalysts: olefin hydroformylation and arene hydrogenation (Gao, H. (145) 83)

Molten salts (ionic liquids) to improve the activity, selectivity and stability of the palladium catalysed Trost–Tsuji C–C coupling in biphasic media (De Bellefon, C. (145) 121)

Palladium catalysts

Telomerization of butadiene with methanol catalysed by cationic palladium complexes containing a bidentate phosphinoamino ligand (Basato, M. (145) 313)

Particulate methane monooxygenase

Effect of bovine serum albumin on particulate methane monooxygenase from *Methylosinus trichosporium* OB3b (Takeguchi, M. (145) 45)

Phase-transfer catalysis

Formation and hydrolysis of 4-methoxyphenylacetic acid butyl ester reacting from 4-methoxyphenylacetic acid and *n*-bromobutane using triphase catalysis (Wu, H.-S. (145) 95)

Phase-transfer catalysis of vanadium(V) species

The role of vanadium(V) in the catalysed oxidation of hydrocarbons (Csányi, L.J. (145) 229)

Phosphines

Fluorous biphasic hydrogenation of 1-alkenes using novel fluorous derivatives of Wilkinson's catalyst (Richter, B. (145) 317)

Phosphinoamines

Telomerization of butadiene with methanol catalysed by cationic palladium complexes containing a bidentate phosphinoamino ligand (Basato, M. (145) 313)

Phosphodiester hydrolysis

Remarkable phosphodiester hydrolysis activity of a novel Ce^{IV} complex in neutral aqueous solutions (Baykal, U. (145) 309)

Photoinduced hydrogen evolution

Hydrogen evolution using photoinduced electron transfer in water soluble bisviologen-linked cationic zinc porphyrin (Amao, Y. (145) 51)

Phthalocyanine cobalt derivatives

Electrocatalytic proton reduction by phthalocyanine cobalt derivatives incorporated in poly(4-vinylpyridine-co-styrene) film (Zhao, F. (145) 245)

Pillared

Characterization of Ni, Mo and Ni–Mo catalysts supported on alumina-pillared α -zirconium phosphate and reactivity for the thiophene HDS reaction (Mérida-Robles, J. (145) 169)

Pillared clays

Solid acid catalysts from clays. Part 3: benzene alkylation with ethylene catalyzed by aluminum and aluminum gallium pillared bentonites (Lenarda, M. (145) 237)

Polymer-bound palladium(II) complexes

Hydrogenation of organic substrates by a heterogenized catalyst based on a bis(diphenylphosphino)methane polymer-bound palladium(II) complex (Benvenuti, F. (145) 221)

Polymer catalyst

Imprinted polymer catalysts for the hydrolysis of *p*-nitrophenyl acetate (Kawanami, Y. (145) 107)

Polymerization

Synthesis and catalytic activity of dinitosylchromium complexes of the type [Cr(NO)₂(CO)₂L₂]²⁺, {Cr(NO)₂(OR)₂}_n (R = Et, *i*-Pr) and Cr(NO)₂(O₂CPh)₂ (Keller, A. (145) 127)

Polymerization: powder XRD

Catalytic systems supported on MgCl₂ doped with ZnCl₂ for olefin polymerization (Fregonese, D. (145) 265)

Polyoxoanion-stabilized clusters

A review of modern transition-metal nanoclusters: their synthesis, characterization, and applications in catalysis (Aiken III, J.D. (145) 1)

Poly(4-vinylpyridin-co-styrene) (P(VP-St))

Electrocatalytic proton reduction by phthalocyanine cobalt derivatives incorporated in poly(4-vinylpyridine-co-styrene) film (Zhao, F. (145) 245)

Propylene

Catalytic systems supported on MgCl₂ doped with ZnCl₂ for olefin polymerization (Fregonese, D. (145) 265)

Propylene polymerization

Deviation of hydrogen response during propylene polymerization with various Ziegler–Natta catalysts (Mori, H. (145) 211)

Pt–Sn/Al₂O₃ reforming catalyst

Influence of oxychlorination treatment on the surface and bulk properties of a Pt–Sn/Al₂O₃ catalyst (Arteaga, G.J. (145) 183)

Raney alloy

Reduction of alkali metal carbonate to methane with water in the presence of Raney alloy (Kudo, K. (145) 159)

Raney alloy catalyst

Selective formation of methane in reduction of CO₂ with water by Raney alloy catalyst (Kudo, K. (145) 257)

Reaction kinetics

Formation and hydrolysis of 4-methoxyphenylacetic acid butyl ester reacting from 4-methoxyphenylacetic acid and *n*-bromobutane using triphase catalysis (Wu, H.-S. (145) 95)

Regioselective biphasic hydrogenation

The regioselective biphasic hydrogenation of *trans*-cinnaldehyde by *meta* sulfonatophenyl-diphenylphosphine (TPPMS) Ru(II) and Os(II) species. The influence of ionic strength, ligand tensoactivity and metal nature in the selective production of the unsaturated alcohol (López-Linares, F. (145) 61)

Review

A review of modern transition-metal nanoclusters: their synthesis, characterization, and applications in catalysis (Aiken III, J.D. (145) 1)

Rhodium

Synthesis and characterization of chiral bis-ferrocenyl triphosphine Ni(II) and Rh(III) complexes and their use as catalyst precursors for acetalization reactions (Barbaro, P. (145) 139)

Fluorous biphasic hydrogenation of 1-alkenes using novel fluorous derivatives of Wilkinson's catalyst (Richter, B. (145) 317)

- Rhodium carbonyl thiolate complexes
 Combined homogeneous and heterogeneous catalysts. Rhodium carbonyl thiolate complexes tethered on silica-supported metal heterogeneous catalysts: olefin hydroformylation and arene hydrogenation (Gao, H. (145) 83)
- Rietveld analysis
 The Rietveld analysis of crystal structure of an additive telluromolybdate CoTeMoO_6 (Hayashi, H. (145) 301)
- RNA cleavage
 Remarkable phosphodiester hydrolysis activity of a novel Ce^{IV} complex in neutral aqueous solutions (Baykal, U. (145) 309)
- Ruthenium on carbon
 Reduction of alkali metal carbonate to methane with water in the presence of Raney alloy (Kudo, K. (145) 159)
- Ruthenium tribromide
 A convenient catalyst system employing RuCl_3 or RuBr_3 for metathesis of acyclic olefins (Nubel, P.O. (145) 323)
- Ruthenium trichloride
 A convenient catalyst system employing RuCl_3 or RuBr_3 for metathesis of acyclic olefins (Nubel, P.O. (145) 323)
- Selective hydrogenation
 Catalysis of dendrimer-bound Pd(II) complex. Selective hydrogenation of conjugated dienes to monoenes (Mizugaki, T. (145) 329)
- Silica
 Combined homogeneous and heterogeneous catalysts. Rhodium carbonyl thiolate complexes tethered on silica-supported metal heterogeneous catalysts: olefin hydroformylation and arene hydrogenation (Gao, H. (145) 83)
- Sol-gel catalyst
 Effects of the surface structure and experimental parameters on the isopropanol decomposition catalyzed with sol-gel MgO (Wang, J.A. (145) 291)
- Solubilization of monomeric and oligomeric vanadium(V) species in non-polar solvents
 The role of vanadium(V) in the catalysed oxidation of hydrocarbons (Csányi, L.J. (145) 229)
- Soluble metal-particle catalysis
 A review of modern transition-metal nanoclusters: their synthesis, characterization, and applications in catalysis (Aiken III, J.D. (145) 1)
- Stopped-flow method
 Study of activity enhancement by hydrogen in propylene polymerization using stopped-flow and conventional methods (Mori, H. (145) 153)
- Structural defects
 Effects of the surface structure and experimental parameters on the isopropanol decomposition catalyzed with sol-gel MgO (Wang, J.A. (145) 291)
- Supported catalysis
 Catalytic systems supported on MgCl_2 doped with ZnCl_2 for olefin polymerization (Fregonese, D. (145) 265)
- Supported liquid phase catalyst
 Heterogeneous catalyst system for Heck reaction using supported ethylene glycol phase Pd/TPPTS catalyst with inorganic base (Bhanage, B.M. (145) 69)
- Supported metal catalysts
 Combined homogeneous and heterogeneous catalysts. Rhodium carbonyl thiolate complexes tethered on silica-supported metal heterogeneous catalysts: olefin hydroformylation and arene hydrogenation (Gao, H. (145) 83)
- Supported Ziegler-Natta catalysts
 ^{27}Al NMR MAS study of the surface Al complexes formed in reaction of organoaluminium compounds with supported $\text{TiCl}_4/\text{MgCl}_2$ catalyst (Potapov, A.G. (145) 147)
- Synthesis
 A review of modern transition-metal nanoclusters: their synthesis, characterization, and applications in catalysis (Aiken III, J.D. (145) 1)
- TCSM
 Combined homogeneous and heterogeneous catalysts. Rhodium carbonyl thiolate complexes tethered on silica-supported metal heterogeneous catalysts: olefin hydroformylation and arene hydrogenation (Gao, H. (145) 83)
- Telomerization
 Telomerization of butadiene with methanol catalysed by cationic palladium complexes containing a bidentate phosphinoamino ligand (Basato, M. (145) 313)
- Tethered complex catalysts
 Combined homogeneous and heterogeneous catalysts. Rhodium carbonyl thiolate complexes tethered on silica-supported metal heterogeneous catalysts: olefin hydroformylation and arene hydrogenation (Gao, H. (145) 83)
- Toluene hydrogenation
 Combined homogeneous and heterogeneous catalysts. Rhodium carbonyl thiolate complexes tethered on silica-supported metal heterogeneous catalysts: olefin hydroformylation and arene hydrogenation (Gao, H. (145) 83)
- TPPTS
 Heterogeneous catalyst system for Heck reaction using supported ethylene glycol phase Pd/TPPTS catalyst with inorganic base (Bhanage, B.M. (145) 69)
 Molten salts (ionic liquids) to improve the activity, selectivity and stability of the palladium catalysed Trost-Tsuji C-C coupling in biphasic media (De Bellefon, C. (145) 121)
- Trans*-cinnaldehyde
 The regioselective biphasic hydrogenation of *trans*-cinnaldehyde by *meta* sulfonatophenyl-diphenylphosphine (TPPMS) Ru(II) and Os(II) species. The influence of ionic strength, ligand tensoactivity and metal nature in the selective production of the unsaturated alcohol (López-Linares, F. (145) 61)
- Transition metal nanoclusters
 A review of modern transition-metal nanoclusters: their synthesis, characterization, and applications in catalysis (Aiken III, J.D. (145) 1)
- Transition state analogue
 Imprinted polymer catalysts for the hydrolysis of *p*-nitrophenyl acetate (Kawanami, Y. (145) 107)
- Triphase catalysis
 Formation and hydrolysis of 4-methoxyphenylacetic acid butyl ester reacting from 4-methoxyphenylacetic acid and *n*-bromobutane using triphase catalysis (Wu, H.-S. (145) 95)
- 12-Tungstosilicic acid
 The activity of $\text{H}_4\text{SiW}_{12}\text{O}_{40}$ for the coupling of formaldehyde and methyl formate to methyl glycolate and methyl methoxy acetate (He, D. (145) 335)

Turnover number (TN)

Electrocatalytic proton reduction by phthalocyanine cobalt derivatives incorporated in poly(4-vinylpyridine-co-styrene) film (Zhao, F. (145) 245)

Unsaturated alcohol

The regioselective biphasic hydrogenation of *trans*-cinnaldehyde by *meta* sulfonatophenyl-diphenylphosphine (TPPMS) Ru(II) and Os(II) species. The influence of ionic strength, ligand tensoactivity and metal nature in the selective production of the unsaturated alcohol (López-Linares, F. (145) 61)

Vapor-phase lactate oxidation

The Rietveld analysis of crystal structure of an additive telluromolybdate CoTeMoO₆ (Hayashi, H. (145) 301)

Water

Reduction of alkali metal carbonate to methane with water in the presence of Raney alloy (Kudo, K. (145) 159)

Zeolite-Y encapsulated composite

Catalytic air oxidation of cyclooctene using *cis*-[MoO₂(SAL-SH)(DMF)] (SAL-SH = salicylidene salicyloyl hydrazinato-) and its zeolite-Y encapsulated composite (Rao, S.N. (145) 203)

Ziegler–Natta catalysis

Catalytic systems supported on MgCl₂ doped with ZnCl₂ for olefin polymerization (Fregonese, D. (145) 265)

Ziegler–Natta catalyst

Deviation of hydrogen response during propylene polymerization with various Ziegler–Natta catalysts (Mori, H. (145) 211)

Zinc chloride

Catalytic systems supported on MgCl₂ doped with ZnCl₂ for olefin polymerization (Fregonese, D. (145) 265)

Zirconium phosphate

Characterization of Ni, Mo and Ni–Mo catalysts supported on alumina-pillared α-zirconium phosphate and reactivity for the thiophene HDS reaction (Mérida-Robles, J. (145) 169)