

Subject Index

π stacking

Enantioselectivity in cyclopropanation catalyzed by Cu(I) complexes increased by π stacking of two monodentate oxazoline ligands (Đaković, S. (118) 27)

Acetonitrile

Gas phase hydrogenation of acetonitrile over alumina- and silica-supported platinum catalysts (Rode, C.V. (118) 229)

Acetophenone

Catalytic hydrogen transfer activity of cationic iridium(I) complexes containing α -diimines (Bikrani, M. (118) 47)

Achiral and chiral ligands

Enantioselective catalysis. Part 102. Epimerization of glucose and mannose in the presence of nickel(II) complexes of optically active ligands (Brunner, H. (118) 273)

Acid–base properties of oxides and supported metal catalysts

Evaluation of the acid–base surface properties of several oxides and supported metal catalysts by means of model reactions (Martin, D. (118) 113)

Activation of CO₂

Support effect on the formation of the well-defined PtSn alloy from a Pt–Sn bimetallic complex. Catalytic properties in the activation of CO₂ (Llorca, J. (118) 101)

Activation of Z-enynols

Ruthenium–carbene catalysts for the synthesis of 2,3-dimethylfuran (Çetinkaya, B. (118) L1)

Additive effects

A palladium complex catalyst for the regioselective hydrocarboxylation of 4-methylstyrene (Yoon, J.-Y. (118) 181)

Adsorption

Catalytic oxidation of CH₃OH to HCOOCH₃ on V₂O₅: A theoretical study (Sambeth, J. (118) 283)

3-Alkoxy-2,2-dimethyl-propan-1-ols

Synthesis of 3-alkoxy-2,2-dimethyl-propan-1-ols by hydrogenation of 2-substituted 5,5-dimethyl-[1,3]dioxanes using copper catalysts. Part I: Investigations in the gas phase (Paczkowski, M.E. (118) 311)

Alkylstyrene

A palladium complex catalyst for the regioselective hydrocarboxylation of 4-methylstyrene (Yoon, J.-Y. (118) 181)

Alumina

Evaluation of the acid–base surface properties of several oxides and supported metal catalysts by means of model reactions (Martin, D. (118) 113)

Aluminophosphate

Catalytic transformation of cyclohexanol over aluminophosphate-based molecular sieves (Elangovan, S.P. (118) 301)

Ammoxidation

FTIR investigation of surface intermediates formed during the ammoxidation of toluene over vanadyl pyrophosphate (Zhang, Y. (118) 205)

ASED

Catalytic oxidation of CH₃OH to HCOOCH₃ on V₂O₅: A theoretical study (Sambeth, J. (118) 283)

Bentonite clay

Sheet silicate catalysed demethylation and Fischer–Hepp rearrangement of *N*-methyl-*N*-nitrosoaniline (Kannan, P. (118) 189)

Benzaldehyde

Gas phase hydrogenation/hydrogenolysis of benzaldehyde and *o*-tolualdehyde over Ni/SiO₂ (Keane, M.A. (118) 261)

3-Benzyloxy-2,2-dimethyl-propan-1-ol

Synthesis of 3-benzyloxy-2,2-dimethyl-propan-1-ol by hydrogenation of 5,5-dimethyl-2-phenyl-[1,3]dioxane using copper catalysts. Part II: investigations in the liquid phase (Paczkowski, M.E. (118) 321)

C₆ alkenes

Reactional mechanism of various isomeric C₆ alkenes over reduced mixed Cu–Ce–Al oxide catalysts (Abi Aad, E. (118) 255)

Carbon sphere

Chemical activities of graphitic carbon spheres (Kang, Z.C. (118) 215)

Carbon–carbon coupling

Importance of counter-ion nature in aryl sulfonated ligands: An improvement in two-phase catalysis (Lavenot, L. (118) 153)

Carbonyl cluster

CO hydrogenation activity of carbonyl cluster derived Co–Ru/SiO₂ catalysts prepared by reflux method (Reinikainen, M. (118) 137)

Carbonylation

Carbonylation of methanol catalyzed by polymer-protected rhodium colloid (Wang, Q. (118) 145)

Catalysis

High active, selective and sulfur resistant supported palladium tetra-coordinated complex as catalyst in the selective hydrogenation of styrene (L'Argentière, P.C. (118) 341)

Multiple bonds between transition metals and main-group elements: Part 161 Oxygen-donor adducts of organorhenium(VII) oxides: syntheses, structures and catalytic properties (Herrmann, W.A. (118) 33)

- Sheet silicate catalysed demethylation and Fischer–Hepp rearrangement of *N*-methyl-*N*-nitrosoaniline (Kannan, P. (118) 189)
- Catalytic synthesis of 2,3-dimethylfuran
Ruthenium–carbene catalysts for the synthesis of 2,3-dimethylfuran (Çetinkaya, B. (118) L1)
- Cation-exchanged clays
Sheet silicate catalysed demethylation and Fischer–Hepp rearrangement of *N*-methyl-*N*-nitrosoaniline (Kannan, P. (118) 189)
- CdS
Chemical activities of graphitic carbon spheres (Kang, Z.C. (118) 215)
- Ceria–alumina
Evaluation of the acid–base surface properties of several oxides and supported metal catalysts by means of model reactions (Martin, D. (118) 113)
- Ceria
Evaluation of the acid–base surface properties of several oxides and supported metal catalysts by means of model reactions (Martin, D. (118) 113)
- Chiral phosphines
Hydroesterification of styrene catalyzed by Montmorillonite–Diphenylphosphinepalladium(II) chloride in the presence of chiral phosphines (Nozaki, K. (118) 247)
- Cinchona alkaloid modifiers
Enantioselective heterogeneous catalysis. 3. Effect of oxygen on catalyst activity and selectivity in the enantioselective hydrogenation of pyruvates (Augustine, R.L. (118) 79)
- CO₂ chemisorption
Evaluation of the acid–base surface properties of several oxides and supported metal catalysts by means of model reactions (Martin, D. (118) 113)
- CO hydrogenation
CO hydrogenation activity of carbonyl cluster derived Co–Ru/SiO₂ catalysts prepared by reflux method (Reinikainen, M. (118) 137)
- Copper catalysts
Synthesis of 3-alkoxy-2,2-dimethyl-propan-1-ols by hydrogenation of 2-substituted 5,5-dimethyl-[1,3]dioxanes using copper catalysts. Part I: Investigations in the gas phase (Paczkowski, M.E. (118) 311)
Synthesis of 3-benzyloxy-2,2-dimethyl-propan-1-ol by hydrogenation of 5,5-dimethyl-2-phenyl-[1,3]dioxane using copper catalysts. Part II: investigations in the liquid phase (Paczkowski, M.E. (118) 321)
- Cu–Ce–Al oxides
Reactional mechanism of various isomeric C₆ alkenes over reduced mixed Cu–Ce–Al oxide catalysts (Abi Aad, E. (118) 255)
- 3',5'-cyclic adenosine monophosphate (cAMP) and 3',5'-cyclic deoxyadenosine monophosphate (dcAMP) hydrolysis
Lanthanide metal complexes for the hydrolysis of ribonucleoside 3',5'-cyclic phosphate and deoxyribonucleoside 3',5'-cyclic phosphate (Zhu, B. (118) L5)
- Cyclohexanol dehydration and dehydrogenation
Evaluation of the acid–base surface properties of several oxides and supported metal catalysts by means of model reactions (Martin, D. (118) 113)
- Cyclohexanol
Catalytic transformation of cyclohexanol over aluminophosphate-based molecular sieves (Elangovan, S.P. (118) 301)
- Cyclohexanone
Catalytic transformation of cyclohexanol over aluminophosphate-based molecular sieves (Elangovan, S.P. (118) 301)
- Cyclohexene
Catalytic transformation of cyclohexanol over aluminophosphate-based molecular sieves (Elangovan, S.P. (118) 301)
- Cyclopropanation
Enantioselectivity in cyclopropanation catalyzed by Cu(I) complexes increased by π stacking of two monodentate oxazoline ligands (Đaković, S. (118) 27)
- Cytochrome P-450
Porphyrins covalently bound to polystyrene. II. an efficient model of monooxygenase reactivity (Anzenbacher Jr., P. (118) 63)
- Demethylation
Sheet silicate catalysed demethylation and Fischer–Hepp rearrangement of *N*-methyl-*N*-nitrosoaniline (Kannan, P. (118) 189)
- Denitrosation
Sheet silicate catalysed demethylation and Fischer–Hepp rearrangement of *N*-methyl-*N*-nitrosoaniline (Kannan, P. (118) 189)
- 5'-Deoxyripyridoxal
Determination of the rates of formation and hydrolysis of the Schiff bases formed by 5'-deoxyripyridoxal and poly-L-lysine (García del Vado, M.A. (118) 21)
- Diethylamine
Gas phase hydrogenation of acetonitrile over alumina- and silica-supported platinum catalysts (Rode, C.V. (118) 229)
- α -diimines
Catalytic hydrogen transfer activity of cationic iridium(I) complexes containing α -diimines (Bikrani, M. (118) 47)
- Dimethyl carbonate
Two-step synthesis of diphenyl carbonate from dimethyl carbonate and phenol using MoO₃/SiO₂ catalysts (Fu, Z.-h. (118) 293)
- 3,3-Dimethylbut-1-ene isomerization
Evaluation of the acid–base surface properties of several oxides and supported metal catalysts by means of model reactions (Martin, D. (118) 113)
- 5,5-Dimethyl-2-phenyl-[1,3]dioxane
Synthesis of 3-benzyloxy-2,2-dimethyl-propan-1-ol by hydrogenation of 5,5-dimethyl-2-phenyl-[1,3]dioxane using copper catalysts. Part II: investigations in the liquid phase (Paczkowski, M.E. (118) 321)
- Diphenyl carbonate
Two-step synthesis of diphenyl carbonate from dimethyl carbonate and phenol using MoO₃/SiO₂ catalysts (Fu, Z.-h. (118) 293)
- Double bond migration
Effect of the CO₂H groups of carboxylated triarylphosphines on (COD)RhCl(PAr₃)₂-catalyzed isomerization of 1-octen-3-ol under phase transfer conditions (Schumann, H. (118) 55)
- Electronic effects
Gas phase hydrogenation/hydrogenolysis of benzaldehyde and *o*-tolualdehyde over Ni/SiO₂ (Keane, M.A. (118) 261)

Enantioselective hydrogenation

Enantioselective heterogeneous catalysis. 3. Effect of oxygen on catalyst activity and selectivity in the enantioselective hydrogenation of pyruvates (Augustine, R.L. (118) 79)

Enantioselectivity

Enantioselectivity in cyclopropanation catalyzed by Cu(I) complexes increased by π stacking of two monodentate oxazoline ligands (Đaković, S. (118) 27)

Epimerization

Enantioselective catalysis. Part 102. Epimerization of glucose and mannose in the presence of nickel(II) complexes of optically active ligands (Brunner, H. (118) 273)

Epoxidation

Porphyryns covalently bound to polystyrene. II. an efficient model of monooxygenase reactivity (Anzenbacher Jr., P. (118) 63)

Ethane

Effects of chlorine additives in the gas- and solid-phases on the oxidative dehydrogenation of ethane over praseodymium oxide (Sugiyama, S. (118) 129)

Ethanol carbonylation

Carbonylation of ethanol using Ni-isoquinoline complex catalyst: Activity and selectivity studies (Ubale, R.S. (118) 9)

Extended Hückel method

Catalytic oxidation of CH₃OH to HCOOCH₃ on V₂O₅: A theoretical study (Sambeth, J. (118) 283)

FTIR spectroscopy

FTIR investigation of surface intermediates formed during the ammoxidation of toluene over vanadyl pyrophosphate (Zhang, Y. (118) 205)

FTIR study

FTIR investigation of surface intermediates formed during the ammoxidation of toluene over vanadyl pyrophosphate (Zhang, Y. (118) 205)

Gas phase

Synthesis of 3-alkoxy-2,2-dimethyl-propan-1-ols by hydrogenation of 2-substituted 5,5-dimethyl-[1,3]dioxanes using copper catalysts. Part I: Investigations in the gas phase (Paczkowski, M.E. (118) 311)

Glucose

Enantioselective catalysis. Part 102. Epimerization of glucose and mannose in the presence of nickel(II) complexes of optically active ligands (Brunner, H. (118) 273)

Graphitic flake

Chemical activities of graphitic carbon spheres (Kang, Z.C. (118) 215)

HCOOH

Cluster quantum-chemical MINDO/3 study of HCOOH interactions with nonpolar (1010) surface of ZnO (Zhanpeisov, N.U. (118) 69)

Homogeneous catalysis

Hydroformylation versus hydrocarboxylation of cyclohexene under homogeneous WGS conditions: The study of Co₂(CO)₈ diphos/THF-H₂O system (Cabrera, A. (118) 167)

Hydrocarboxylation

A palladium complex catalyst for the regioselective hydrocarboxylation of 4-methylstyrene (Yoon, J.-Y. (118) 181)

Hydroformylation versus hydrocarboxylation of cyclohexene under homogeneous WGS conditions: The study of Co₂(CO)₈ diphos/THF-H₂O system (Cabrera, A. (118) 167)

Hydroesterification

Hydroesterification of styrene catalyzed by Montmorillonite-Diphenylphosphinepalladium(II) chloride in the presence of chiral phosphines (Nozaki, K. (118) 247)

Hydroformylation

Hydroformylation versus hydrocarboxylation of cyclohexene under homogeneous WGS conditions: The study of Co₂(CO)₈ diphos/THF-H₂O system (Cabrera, A. (118) 167)

Study on the regioselectivity in the rhodium-catalyzed hydroformylation of vinyl-pyridine derivatives (Botteghi, C. (118) 173)

Hydrogenation

Gas phase hydrogenation/hydrogenolysis of benzaldehyde and *o*-tolualdehyde over Ni/SiO₂ (Keane, M.A. (118) 261)

Reactional mechanism of various isomeric C₆ alkenes over reduced mixed Cu-Ce-Al oxide catalysts (Abi Aad, E. (118) 255)

Synthesis of 3-alkoxy-2,2-dimethyl-propan-1-ols by hydrogenation of 2-substituted 5,5-dimethyl-[1,3]dioxanes using copper catalysts. Part I: Investigations in the gas phase (Paczkowski, M.E. (118) 311)

Synthesis of 3-benzyloxy-2,2-dimethyl-propan-1-ol by hydrogenation of 5,5-dimethyl-2-phenyl-[1,3]dioxane using copper catalysts. Part II: investigations in the liquid phase (Paczkowski, M.E. (118) 321)

Hydrogenolysis

Gas phase hydrogenation/hydrogenolysis of benzaldehyde and *o*-tolualdehyde over Ni/SiO₂ (Keane, M.A. (118) 261)

Hydrogen-transfer reduction

Catalytic hydrogen transfer activity of cationic iridium(I) complexes containing α -diimines (Bikrani, M. (118) 47)

Hydrolysis

Determination of the rates of formation and hydrolysis of the Schiff bases formed by 5'-deoxyripyridoxal and poly-L-lysine (García del Vado, M.A. (118) 21)

Iodide

Carbonylation of ethanol using Ni-isoquinoline complex catalyst: Activity and selectivity studies (Ubale, R.S. (118) 9)

Iridium

Catalytic hydrogen transfer activity of cationic iridium(I) complexes containing α -diimines (Bikrani, M. (118) 47)

Isomerization

Reactional mechanism of various isomeric C₆ alkenes over reduced mixed Cu-Ce-Al oxide catalysts (Abi Aad, E. (118) 255)

Isoprene hydrogenation

Product selectivities in isoprene hydrogenation: diagnosis of π -allylic intermediates (Bond, G.C. (118) 333)

Isoquinoline

Carbonylation of ethanol using Ni-isoquinoline complex catalyst: Activity and selectivity studies (Ubale, R.S. (118) 9)

Kinetics

Mechanism of biexponential inactivation of organophosphate hydrolase by 1,10-phenanthroline. A kinetic and second derivative UV spectral study (Danilova, I.G. (118) 161)

KSF clay

Sheet silicate catalysed demethylation and Fischer-Hepp rearrangement of *N*-methyl-*N*-nitrosoaniline (Kannan, P. (118) 189)

Lanthanide(III) complexes

Lanthanide metal complexes for the hydrolysis of ribonucleoside 3',5'-cyclic phosphate and deoxyribonucleoside 3',5'-cyclic phosphate (Zhu, B. (118) L5)

Lanthanide(III) ion

Lanthanide metal complexes for the hydrolysis of ribonucleoside 3',5'-cyclic phosphate and deoxyribonucleoside 3',5'-cyclic phosphate (Zhu, B. (118) L5)

Liquid phase

Synthesis of 3-benzyloxy-2,2-dimethyl-propan-1-ol by hydrogenation of 5,5-dimethyl-2-phenyl-[1,3]dioxane using copper catalysts. Part II: investigations in the liquid phase (Paczkowski, M.E. (118) 321)

Magnesia

Evaluation of the acid-base surface properties of several oxides and supported metal catalysts by means of model reactions (Martin, D. (118) 113)

Mannose

Enantioselective catalysis. Part 102. Epimerization of glucose and mannose in the presence of nickel(II) complexes of optically active ligands (Brunner, H. (118) 273)

Mechanism

Mechanism of biexponential inactivation of organophosphate hydrolase by 1,10-phenantroline. A kinetic and second derivative UV spectral study (Danilova, I.G. (118) 161)

Metal complexes

High active, selective and sulfur resistant supported palladium tetra-coordinated complex as catalyst in the selective hydrogenation of styrene (L'Argentière, P.C. (118) 341)

Methanol

Carbonylation of methanol catalyzed by polymer-protected rhodium colloid (Wang, Q. (118) 145)
Catalytic oxidation of CH₃OH to HCOOCH₃ on V₂O₅: A theoretical study (Sambeth, J. (118) 283)

Methyl phenyl carbonate

Two-step synthesis of diphenyl carbonate from dimethyl carbonate and phenol using MoO₃/SiO₂ catalysts (Fu, Z.-h. (118) 293)

Methylene cyclohexane isomerization

Evaluation of the acid-base surface properties of several oxides and supported metal catalysts by means of model reactions (Martin, D. (118) 113)

Model

Porphyryns covalently bound to polystyrene. II. an efficient model of monooxygenase reactivity (Anzenbacher Jr., P. (118) 63)

Molecular sieves

Catalytic transformation of cyclohexanol over aluminophosphate-based molecular sieves (Elangovan, S.P. (118) 301)

Monodentate ligands

Enantioselectivity in cyclopropanation catalyzed by Cu(I) complexes increased by π stacking of two monodentate oxazoline ligands (Đaković, S. (118) 27)

Monooxygenases

Porphyryns covalently bound to polystyrene. II. an efficient model of monooxygenase reactivity (Anzenbacher Jr., P. (118) 63)

Montmorillonite clay

Sheet silicate catalysed demethylation and Fischer-Hepp rearrangement of *N*-methyl-*N*-nitrosoaniline (Kannan, P. (118) 189)

Montmorillonite

Hydroesterification of styrene catalyzed by Montmorillonite-Diphenylphosphinepalladium(II) chloride in the presence of chiral phosphines (Nozaki, K. (118) 247)

MoO₃/SiO₂ catalyst

Two-step synthesis of diphenyl carbonate from dimethyl carbonate and phenol using MoO₃/SiO₂ catalysts (Fu, Z.-h. (118) 293)

Nickel

Carbonylation of ethanol using Ni-isoquinoline complex catalyst: Activity and selectivity studies (Ubale, R.S. (118) 9)

Nickel(II) catalysts

Enantioselective catalysis. Part 102. Epimerization of glucose and mannose in the presence of nickel(II) complexes of optically active ligands (Brunner, H. (118) 273)

Ni/SiO₂

Gas phase hydrogenation/hydrogenolysis of benzaldehyde and *o*-tolualdehyde over Ni/SiO₂ (Keane, M.A. (118) 261)

Non-ionic mechanism

Reactional mechanism of various isomeric C₆ alkenes over reduced mixed Cu-Ce-Al oxide catalysts (Abi Aad, E. (118) 255)

1-Octen-3-ol

Effect of the CO₂H groups of carboxylated triarylphosphines on (COD)RhCl(PAr₃)₂-catalyzed isomerization of 1-octen-3-ol under phase transfer conditions (Schumann, H. (118) 55)

Olefins

Multiple bonds between transition metals and main-group elements: Part 161 Oxygen-donor adducts of organorhenium(VII) oxides: syntheses, structures and catalytic properties (Herrmann, W.A. (118) 33)

Organophosphate hydrolase

Mechanism of biexponential inactivation of organophosphate hydrolase by 1,10-phenantroline. A kinetic and second derivative UV spectral study (Danilova, I.G. (118) 161)

o-Tolualdehyde

Gas phase hydrogenation/hydrogenolysis of benzaldehyde and *o*-tolualdehyde over Ni/SiO₂ (Keane, M.A. (118) 261)

Oxazoline ligands

Enantioselectivity in cyclopropanation catalyzed by Cu(I) complexes increased by π stacking of two monodentate oxazoline ligands (Đaković, S. (118) 27)

Oxidation

Catalytic oxidation of CH₃OH to HCOOCH₃ on V₂O₅: A theoretical study (Sambeth, J. (118) 283)

Multiple bonds between transition metals and main-group elements: Part 161 Oxygen-donor adducts of organorhenium(VII) oxides: syntheses, structures and catalytic properties (Herrmann, W.A. (118) 33)

Oxidative dehydrogenation

Effects of chlorine additives in the gas- and solid-phases on the oxidative dehydrogenation of ethane over praseodymium oxide (Sugiyama, S. (118) 129)

Palladium complex

A palladium complex catalyst for the regioselective hydrocarboxylation of 4-methylstyrene (Yoon, J.-Y. (118) 181)
Hydroesterification of styrene catalyzed by Montmorillonite–Diphenylphosphinepalladium(II) chloride in the presence of chiral phosphines (Nozaki, K. (118) 247)

Palladium

High active, selective and sulfur resistant supported palladium tetra-coordinated complex as catalyst in the selective hydrogenation of styrene (L'Argentière, P.C. (118) 341)
Product selectivities in isoprene hydrogenation: diagnosis of π -allylic intermediates (Bond, G.C. (118) 333)

Peroxo complexes

Multiple bonds between transition metals and main-group elements: Part 161 Oxygen-donor adducts of organorhenium(VII) oxides: syntheses, structures and catalytic properties (Herrmann, W.A. (118) 33)

Phase transfer catalysis

Effect of the CO₂H groups of carboxylated triarylphosphines on (COD)RhCl(PAr₃)₂-catalyzed isomerization of 1-octen-3-ol under phase transfer conditions (Schumann, H. (118) 55)

Phenylhydrazone derivatives

The effect of some transition metal ions exchanged with zeolites on benzaldehyde, benzophenone and cyclohexanone phenylhydrazones (Farzaneh, F. (118) 223)

Photogenerated W(CO)₆/CCl₄ catalyst

Scanning tunnelling microscopy for characterization of metathesis catalysts based on photogenerated W(CO)₆/CCl₄ (Zareie, M.H. (118) 195)

Poly-L-lysine

Determination of the rates of formation and hydrolysis of the Schiff bases formed by 5'-deoxyripyridoxal and poly-L-lysine (García del Vado, M.A. (118) 21)

Polyvinylpyrrolidone

Carbonylation of methanol catalyzed by polymer-protected rhodium colloid (Wang, Q. (118) 145)

Porphyrin

Porphyrins covalently bound to polystyrene. II. an efficient model of monooxygenase reactivity (Anzenbacher Jr., P. (118) 63)

Praseodymium chloride

Effects of chlorine additives in the gas- and solid-phases on the oxidative dehydrogenation of ethane over praseodymium oxide (Sugiyama, S. (118) 129)

Praseodymium oxide

Effects of chlorine additives in the gas- and solid-phases on the oxidative dehydrogenation of ethane over praseodymium oxide (Sugiyama, S. (118) 129)

Praseodymium oxychloride

Effects of chlorine additives in the gas- and solid-phases on the oxidative dehydrogenation of ethane over praseodymium oxide (Sugiyama, S. (118) 129)

Preparation method

CO hydrogenation activity of carbonyl cluster derived Co–Ru/SiO₂ catalysts prepared by reflux method (Reinikainen, M. (118) 137)

Pt

Chemical activities of graphitic carbon spheres (Kang, Z.C. (118) 215)

PtSn catalyst

Support effect on the formation of the well-defined PtSn alloy from a Pt–Sn bimetallic complex. Catalytic properties in the activation of CO₂ (Llorca, J. (118) 101)

Pyridine complexes

Study on the regioselectivity in the rhodium-catalyzed hydroformylation of vinyl-pyridine derivatives (Botteghi, C. (118) 173)

Pyridylethenes

Study on the regioselectivity in the rhodium-catalyzed hydroformylation of vinyl-pyridine derivatives (Botteghi, C. (118) 173)

Pyruvate hydrogenation

Enantioselective heterogeneous catalysis. 3. Effect of oxygen on catalyst activity and selectivity in the enantioselective hydrogenation of pyruvates (Augustine, R.L. (118) 79)

Quantum-chemical study

Cluster quantum-chemical MINDO/3 study of HCOOH interactions with nonpolar (10 $\bar{1}$ 0) surface of ZnO (Zhanpeisov, N.U. (118) 69)

Quaternary ammonium ion

Importance of counter-ion nature in aryl sulfonated ligands: An improvement in two-phase catalysis (Lavenot, L. (118) 153)

Regioselectivity

A palladium complex catalyst for the regioselective hydrocarboxylation of 4-methylstyrene (Yoon, J.-Y. (118) 181)
Hydroesterification of styrene catalyzed by Montmorillonite–Diphenylphosphinepalladium(II) chloride in the presence of chiral phosphines (Nozaki, K. (118) 247)

Rhenium

Multiple bonds between transition metals and main-group elements: Part 161 Oxygen-donor adducts of organorhenium(VII) oxides: syntheses, structures and catalytic properties (Herrmann, W.A. (118) 33)

Rhodium catalysts

Study on the regioselectivity in the rhodium-catalyzed hydroformylation of vinyl-pyridine derivatives (Botteghi, C. (118) 173)

Rhodium colloid

Carbonylation of methanol catalyzed by polymer-protected rhodium colloid (Wang, Q. (118) 145)

Rhodium

Effect of the CO₂H groups of carboxylated triarylphosphines on (COD)RhCl(PAr₃)₂-catalyzed isomerization of 1-octen-3-ol under phase transfer conditions (Schumann, H. (118) 55)
Importance of counter-ion nature in aryl sulfonated ligands: An improvement in two-phase catalysis (Lavenot, L. (118) 153)

Ruthenium–carbene catalysts

Ruthenium–carbene catalysts for the synthesis of 2,3-dimethylfuran (Çetinkaya, B. (118) L1)

Schiff base

Determination of the rates of formation and hydrolysis of the Schiff bases formed by 5'-deoxyripyridoxal and poly-L-lysine (García del Vado, M.A. (118) 21)

Second derivative UV spectra

Mechanism of biexponential inactivation of organophosphate hydrolase by 1,10-phenantroline. A kinetic and second derivative UV spectral study (Danilova, I.G. (118) 161)

Selective hydrogenation

- Gas phase hydrogenation of acetonitrile over alumina- and silica-supported platinum catalysts (Rode, C.V. (118) 229)
 High active, selective and sulfur resistant supported palladium tetra-coordinated complex as catalyst in the selective hydrogenation of styrene (L'Argentière, P.C. (118) 341)

Selectivity (methylbutene)

- Product selectivities in isoprene hydrogenation: diagnosis of π -allylic intermediates (Bond, G.C. (118) 333)

Silica-alumina

- Evaluation of the acid-base surface properties of several oxides and supported metal catalysts by means of model reactions (Martin, D. (118) 113)

Silica

- Evaluation of the acid-base surface properties of several oxides and supported metal catalysts by means of model reactions (Martin, D. (118) 113)

'Steady-state approximation'

- Catalytic hydrogen transfer activity of cationic iridium(I) complexes containing α -diimines (Bikrani, M. (118) 47)

STM

- Scanning tunnelling microscopy for characterization of metathesis catalysts based on photogenerated $W(CO)_6/CCl_4$ (Zareie, M.H. (118) 195)

Styrene

- Hydroesterification of styrene catalyzed by Montmorillonite-Diphenylphosphinepalladium(II) chloride in the presence of chiral phosphines (Nozaki, K. (118) 247)

2-Substituted 5,5-dimethyl-[1,3]dioxanes

- Synthesis of 3-alkoxy-2,2-dimethyl-propan-1-ols by hydrogenation of 2-substituted 5,5-dimethyl-[1,3]dioxanes using copper catalysts. Part I: Investigations in the gas phase (Paczowski, M.E. (118) 311)

Supported platinum catalysts

- Gas phase hydrogenation of acetonitrile over alumina- and silica-supported platinum catalysts (Rode, C.V. (118) 229)

Supported PtSn alloy

- Support effect on the formation of the well-defined PtSn alloy from a Pt-Sn bimetallic complex. Catalytic properties in the activation of CO_2 (Llorca, J. (118) 101)

Tetrachloromethane

- Effects of chlorine additives in the gas- and solid-phases on the oxidative dehydrogenation of ethane over praseodymium oxide (Sugiyama, S. (118) 129)

Thermoinactivation

- Mechanism of biexponential inactivation of organophosphate hydrolase by 1,10-phenantroline. A kinetic and second derivative UV spectral study (Danilova, I.G. (118) 161)

Toluene

- FTIR investigation of surface intermediates formed during the ammoxidation of toluene over vanadyl pyrophosphate (Zhang, Y. (118) 205)

Transesterification

- Two-step synthesis of diphenyl carbonate from dimethyl carbonate and phenol using MoO_3/SiO_2 catalysts (Fu, Z.-h. (118) 293)

Transition metals

- The effect of some transition metal ions exchanged with zeolites on benzaldehyde, benzophenone and cyclohexanone phenylhydrazones (Farzaneh, F. (118) 223)

Two-phase catalysis

- Importance of counter-ion nature in aryl sulfonated ligands: An improvement in two-phase catalysis (Lavenot, L. (118) 153)

 α, β -unsaturated ketones

- Catalytic hydrogen transfer activity of cationic iridium(I) complexes containing α -diimines (Bikrani, M. (118) 47)

 V_2O_5

- Catalytic oxidation of CH_3OH to $HCOOCH_3$ on V_2O_5 : A theoretical study (Sambeth, J. (118) 283)

 $(VO)_2P_2O_7$ catalyst

- FTIR investigation of surface intermediates formed during the ammoxidation of toluene over vanadyl pyrophosphate (Zhang, Y. (118) 205)

Water-soluble ligand

- Importance of counter-ion nature in aryl sulfonated ligands: An improvement in two-phase catalysis (Lavenot, L. (118) 153)

 $W(CO)_6$

- Scanning tunnelling microscopy for characterization of metathesis catalysts based on photogenerated $W(CO)_6/CCl_4$ (Zareie, M.H. (118) 195)

WGSR (water gas shift reaction)

- Hydroformylation versus hydrocarboxylation of cyclohexene under homogeneous WGSR conditions: The study of $Co_2(CO)_8$ diphos/THF- H_2O system (Cabrera, A. (118) 167)

 WO_3

- Chemical activities of graphitic carbon spheres (Kang, Z.C. (118) 215)

X-ray structures

- Multiple bonds between transition metals and main-group elements: Part 161 Oxygen-donor adducts of organorhenium(VII) oxides: syntheses, structures and catalytic properties (Herrmann, W.A. (118) 33)

Zeolites

- The effect of some transition metal ions exchanged with zeolites on benzaldehyde, benzophenone and cyclohexanone phenylhydrazones (Farzaneh, F. (118) 223)

Zinc oxide

- Cluster quantum-chemical MINDO/3 study of $HCOOH$ interactions with nonpolar (1010) surface of ZnO (Zhanpeisov, N.U. (118) 69)

Zirconia

- Evaluation of the acid-base surface properties of several oxides and supported metal catalysts by means of model reactions (Martin, D. (118) 113)