

Subject index

Activated carbon

Examination of the surface chemistry of activated carbon on enantioselective hydrogenation of methyl pyruvate over Pt/C catalysts (Fraga, M.A. (179) 243)

Adsorption

Photocatalytic activity of hydroxyapatite for methyl mercaptane (Nishikawa, H. (179) 193)

Aerobic selective oxidation

Synthesis, characterization and study of vanadyl tetradentate Schiff base complexes as catalyst in aerobic selective oxidation of olefins (Boghaei, D.M. (179) 41)

Alcohols

Carbonylation of alcohols over Nafion-H, a solid perfluoroalkanesulfonic acid resin catalyst (Tsumori, N. (179) 271)

Alkylation

Study on alkylation of benzene with ethylene over β -zeolite catalyst to ethylbenzene by in situ IR (Du, Y. (179) 253)

Allylbenzenes

Rhodium-catalyzed hydroformylation of allylbenzenes and propenylbenzenes: effect of phosphine and diphosphine ligands on chemo- and regioselectivity (da Silva, A.C. (179) 133)

Anthracene

Liquid phase oxidation of anthracene and *trans*-stilbene over modified mesoporous (MCM-41) molecular sieves (Srinivas, N. (179) 221)

9,10-Anthraquinone

Liquid phase oxidation of anthracene and *trans*-stilbene over modified mesoporous (MCM-41) molecular sieves (Srinivas, N. (179) 221)

Base

Effects of salts and mixed aqueous-acetonitrile solvent on the rate of alkaline hydrolysis of 4-nitrophthalimide in the presence of cationic micelles (Niyaz Khan, M. (179) 143)

Basic catalysis

Effect of rare-earth nature on the basic properties of zeolite NaX containing occluded rare-earth species (Lopes, J.M. (179) 185)

Biomimetic catalysis

Comparative study on heme-containing enzyme-like catalytic activities of water-soluble metalloporphyrins (Liu, J.-Y. (179) 27)

Biphasic reaction

p-Cresol autoxidation using CoAPO-5 prepared by microwave heating of the precursor gel: comparison with homogeneous and biphasic reaction schemes using cobalt salt or complex catalysts (Kim, D.S. (179) 175)

Bipyridine

High-pressure photocatalytic reduction of carbon dioxide using $[fac-Re(bpy)(CO)_3P(O^iPr)_3]^+$ (bpy = 2,2'-bipyridine) (Hori, H. (179) 1)

o-Bromomethyl 1-butanoxymethyl benzene

Phase-transfer catalytic reaction of dibromo-*o*-xylene and 1-butanol in two-phase solution (Wang, M.-L. (179) 17)

1-Butene isomerization

Effect of rare-earth nature on the basic properties of zeolite NaX containing occluded rare-earth species (Lopes, J.M. (179) 185)

Calcination

Phase transformations in the thermoactivated $MnO_x-Al_2O_3$ catalytic system (Tsyrlunikov, P.G. (179) 213)

Carbon dioxide

High-pressure photocatalytic reduction of carbon dioxide using $[fac-Re(bpy)(CO)_3P(O^iPr)_3]^+$ (bpy = 2,2'-bipyridine) (Hori, H. (179) 1)

Carbonylation

Carbonylation of alcohols over Nafion-H, a solid perfluoroalkanesulfonic acid resin catalyst (Tsumori, N. (179) 271)

Carboxylic acids

Carbonylation of alcohols over Nafion-H, a solid perfluoroalkanesulfonic acid resin catalyst (Tsumori, N. (179) 271)

Catalase

Comparative study on heme-containing enzyme-like catalytic activities of water-soluble metalloporphyrins (Liu, J.-Y. (179) 27)

Catalysis

Ferroxime(II)-catalyzed oxygenation of nitroalkanes by *tert*-butyl hydroperoxide and its relevance to 2-nitropropane dioxygenase (Kaizer, J. (179) 35)

Structural effects on the NaOCl epoxidation of styrene in micellar media catalysed by amphiphilised Mn(III)metalloporphyrins (Monti, D. (179) 125)

Heterogenized iron(II) complexes as highly active ethene polymerization catalysts (Schmidt, R. (179) 155)

Catalyst poisoning

Mild hydrogenation of quinoline. 1. Role of reaction parameters (Campanati, M. (179) 287)

Catalysts

Liquid-phase hydrogenation of citral over Ir-supported catalysts (Reyes, P. (179) 293)

Catalytic behavior

Multidentate phosphanes as ligands in rhodium catalyzed hydroformylation of 1-hexene (Suomalainen, P. (179) 93)

- Catalytic oxidation of olefins
 Synthesis, characterization and study of vanadyl tetradentate Schiff base complexes as catalyst in aerobic selective oxidation of olefins (Boghaei, D.M. (179) 41)
- Cationic surfactants
 Effects of salts and mixed aqueous-acetonitrile solvent on the rate of alkaline hydrolysis of 4-nitrophthalimide in the presence of cationic micelles (Niyaz Khan, M. (179) 143)
- Chiral modifier
 Enantioselective hydrogenation of isophorone with titania supported Pd catalysts modified by (–)-dihydroapovincaminic acid ethyl ester effect of the support and the reduction method (Sípos, E. (179) 107)
- Cinchona
 Examination of the surface chemistry of activated carbon on enantioselective hydrogenation of methyl pyruvate over Pt/C catalysts (Fraga, M.A. (179) 243)
- Citral
 Liquid-phase hydrogenation of citral over Ir-supported catalysts (Reyes, P. (179) 293)
- Co(III)
 Simultaneous production of chirally enriched epoxides and 1,2-diols from racemic epoxides via hydrolytic kinetic resolution (HKR) (Kureshy, R.I. (179) 73)
- CoAPO-5
p-Cresol autoxidation using CoAPO-5 prepared by microwave heating of the precursor gel: comparison with homogeneous and biphasic reaction schemes using cobalt salt or complex catalysts (Kim, D.S. (179) 175)
- CoBr₂
p-Cresol autoxidation using CoAPO-5 prepared by microwave heating of the precursor gel: comparison with homogeneous and biphasic reaction schemes using cobalt salt or complex catalysts (Kim, D.S. (179) 175)
- Cu-ZnO catalyst
 The optimization of methanol yield in direct selective oxidation of methane with O₂ and NO in the presence of Cu-ZnO/Al₂O₃ (Takemoto, T. (179) 279)
- Cyclohexane
 Iron perchlorophthalocyanine and tetrasulfophthalocyanine catalyzed oxidation of cyclohexane using hydrogen peroxide, chloroperoxybenzoic acid and *tert*-butylhydroperoxide as oxidants (Grootboom, N. (179) 113)
- Cyclohexanediol
 Iron perchlorophthalocyanine and tetrasulfophthalocyanine catalyzed oxidation of cyclohexane using hydrogen peroxide, chloroperoxybenzoic acid and *tert*-butylhydroperoxide as oxidants (Grootboom, N. (179) 113)
- Cyclohexanol
 Iron perchlorophthalocyanine and tetrasulfophthalocyanine catalyzed oxidation of cyclohexane using hydrogen peroxide, chloroperoxybenzoic acid and *tert*-butylhydroperoxide as oxidants (Grootboom, N. (179) 113)
- Cyclohexanone
 Iron perchlorophthalocyanine and tetrasulfophthalocyanine catalyzed oxidation of cyclohexane using hydrogen peroxide, chloroperoxybenzoic acid and *tert*-butylhydroperoxide as oxidants (Grootboom, N. (179) 113)
- chloroperoxybenzoic acid and *tert*-butylhydroperoxide as oxidants (Grootboom, N. (179) 113)
- Cytochrome P-450
 Comparative study on heme-containing enzyme-like catalytic activities of water-soluble metalloporphyrins (Liu, J.-Y. (179) 27)
- Desorption hindrance
 Reactivity of the hydrocarbon C–C bonds as a function of the reaction conditions in the conversion of C₆ alkanes and methylcyclopentane over Rh catalysts (Teschner, D. (179) 201)
- Diol
 Simultaneous production of chirally enriched epoxides and 1,2-diols from racemic epoxides via hydrolytic kinetic resolution (HKR) (Kureshy, R.I. (179) 73)
- (*E*)-2-benzylidene-1-benzosuberone
 Enantioselective hydrogenation of exocyclic α,β -unsaturated ketones. Part II. Hydrogenation in the presence of (*S*)-proline (Fogassy, G. (179) 101)
- Enantiomeric excess
 Enantioselective hydrogenation of exocyclic α,β -unsaturated ketones. Part II. Hydrogenation in the presence of (*S*)-proline (Fogassy, G. (179) 101)
- Enantioselective hydrogenation
 Enantioselective hydrogenation of exocyclic α,β -unsaturated ketones. Part II. Hydrogenation in the presence of (*S*)-proline (Fogassy, G. (179) 101)
- Enantioselective hydrogenation of isophorone with titania supported Pd catalysts modified by (–)-dihydroapovincaminic acid ethyl ester effect of the support and the reduction method (Sípos, E. (179) 107)
- Examination of the surface chemistry of activated carbon on enantioselective hydrogenation of methyl pyruvate over Pt/C catalysts (Fraga, M.A. (179) 243)
- Epoxidation reaction
 Structural effects on the NaOCl epoxidation of styrene in micellar media catalysed by amphiphilised Mn(III)metalloporphyrins (Monti, D. (179) 125)
- Epoxide
 Simultaneous production of chirally enriched epoxides and 1,2-diols from racemic epoxides via hydrolytic kinetic resolution (HKR) (Kureshy, R.I. (179) 73)
- α,ω -Epoxyaldehydes
 Synthesis of α,ω -epoxyaldehydes by hydroformylation of α,ω -epoxyalkenes (Botteghi, C. (179) 79)
- α,ω -Epoxyalkenes
 Synthesis of α,ω -epoxyaldehydes by hydroformylation of α,ω -epoxyalkenes (Botteghi, C. (179) 79)
- Ethene polymerization
 Heterogenized iron(II) complexes as highly active ethene polymerization catalysts (Schmidt, R. (179) 155)
- Ethylbenzene
 Study on alkylation of benzene with ethylene over β -zeolite catalyst to ethylbenzene by in situ IR (Du, Y. (179) 253)

Ethylene

Modification of polyethylene polydispersity by blending a Ziegler-Natta catalyst with a group of IV-half metallocene or scorpionate complexes (López-Linares, F. (179) 87)

Study on alkylation of benzene with ethylene over β -zeolite catalyst to ethylbenzene by in situ IR (Du, Y. (179) 253)

Exocyclic α,β -unsaturated

Enantioselective hydrogenation of exocyclic α,β -unsaturated ketones. Part II. Hydrogenation in the presence of (*S*)-proline (Fogassy, G. (179) 101)

Ferroxime

Ferroxime(II)-catalyzed oxygenation of nitroalkanes by *tert*-butyl hydroperoxide and its relevance to 2-nitropropane dioxygenase (Kaizer, J. (179) 35)

FI catalysts

Highly active ethylene polymerization catalysts based on titanium complexes having two phenoxy-imine chelate ligands (Ishii, S.-i. (179) 11)

Half metallocene

Modification of polyethylene polydispersity by blending a Ziegler-Natta catalyst with a group of IV-half metallocene or scorpionate complexes (López-Linares, F. (179) 87)

Heterogeneous

Advances in homogeneous and heterogeneous catalytic aerobic oxidation of isophorone to ketoisophorone (Murphy, E.F. (179) 233)

Heterogenization

Heterogenized iron(II) complexes as highly active ethene polymerization catalysts (Schmidt, R. (179) 155)

1-Hexene hydroformylation reaction

Multidentate phosphanes as ligands in rhodium catalyzed hydroformylation of 1-hexene (Suomalainen, P. (179) 93)

High-pressure

High-pressure photocatalytic reduction of carbon dioxide using [*fac*-Re(bpy)(CO)₃P(O^{*t*}Pr)₃]⁺ (bpy = 2,2'-bipyridine) (Hori, H. (179) 1)

Homogeneous

Advances in homogeneous and heterogeneous catalytic aerobic oxidation of isophorone to ketoisophorone (Murphy, E.F. (179) 233)

Hydroformylation

Synthesis of α,ω -epoxyaldehydes by hydroformylation of α,ω -epoxyalkenes (Botteghi, C. (179) 79)

Rhodium-catalyzed hydroformylation of allylbenzenes and propenylbenzenes: effect of phosphine and diphosphine ligands on chemo- and regioselectivity (da Silva, A.C. (179) 133)

Hydrogenation

The optimization of methanol yield in direct selective oxidation of methane with O₂ and NO in the presence of Cu-ZnO/Al₂O₃ (Takemoto, T. (179) 279)

Liquid-phase hydrogenation of citral over Ir-supported catalysts (Reyes, P. (179) 293)

Hydrogenolysis

Reactivity of the hydrocarbon C–C bonds as a function of the reaction conditions in the conversion of C₆ alkanes and methylcyclopentane over Rh catalysts (Teschner, D. (179) 201)

Hydrolysis

Effects of salts and mixed aqueous-acetonitrile solvent on the rate of alkaline hydrolysis of 4-nitrophthalimide in the presence of cationic micelles (Niyaz Khan, M. (179) 143)

Hydrolytic kinetic resolution

Simultaneous production of chirally enriched epoxides and 1,2-diols from racemic epoxides via hydrolytic kinetic resolution (HKR) (Kureshy, R.I. (179) 73)

Hydrosilylation

Syntheses and catalytic properties of alternating copolymers of poly[4-maleimidopyridyl(*p*-cymene)dichloro Ru(II)] with γ -methacryloxypropyl trimethoxysilane (Özdemir, I. (179) 263)

Hydroxyapatite

Photocatalytic activity of hydroxyapatite for methyl mercaptane (Nishikawa, H. (179) 193)

In situ IR

Study on alkylation of benzene with ethylene over β -zeolite catalyst to ethylbenzene by in situ IR (Du, Y. (179) 253)

Iridium

Liquid-phase hydrogenation of citral over Ir-supported catalysts (Reyes, P. (179) 293)

Iron phthalocyanine

Iron perchlorophthalocyanine and tetrasulfophthalocyanine catalyzed oxidation of cyclohexane using hydrogen peroxide, chloroperoxybenzoic acid and *tert*-butylhydroperoxide as oxidants (Grootboom, N. (179) 113)

Iron(II) complexes

Heterogenized iron(II) complexes as highly active ethene polymerization catalysts (Schmidt, R. (179) 155)

Isophorone

Enantioselective hydrogenation of isophorone with titania supported Pd catalysts modified by (–)-dihydroapovincaminic acid ethyl ester effect of the support and the reduction method (Sípos, E. (179) 107)

Advances in homogeneous and heterogeneous catalytic aerobic oxidation of isophorone to ketoisophorone (Murphy, E.F. (179) 233)

Kinetics

Effects of salts and mixed aqueous-acetonitrile solvent on the rate of alkaline hydrolysis of 4-nitrophthalimide in the presence of cationic micelles (Niyaz Khan, M. (179) 143)

Lewis acids

Unusual polymerization activities of bulky aluminum alkyl complexes (Bi, X. (179) 53)

Ligand structure

Multidentate phosphanes as ligands in rhodium catalyzed hydroformylation of 1-hexene (Suomalainen, P. (179) 93)

Ligands

Rhodium-catalyzed hydroformylation of allylbenzenes and propenylbenzenes: effect of phosphine and diphosphine ligands on chemo- and regioselectivity (da Silva, A.C. (179) 133)

Lithiation of toluene

Lithiation of toluene by organolithium compounds activated by lithium polyether alkoxides (Nugay, N. (179) 59)

MAO

Modification of polyethylene polydispersity by blending a Ziegler-Natta catalyst with a group of IV-half metallocene or scorpionate complexes (López-Linares, F. (179) 87)

Metal complex catalyst

Syntheses and catalytic properties of alternating copolymers of poly[4-maleimidopyridyl(*p*-cymene)dichloro Ru(II)] with γ -methacryloxypropyl trimethoxysilane (Özdemir, I. (179) 263)

Metalloporphyrin

Comparative study on heme-containing enzyme-like catalytic activities of water-soluble metalloporphyrins (Liu, J.-Y. (179) 27)

Methane

The optimization of methanol yield in direct selective oxidation of methane with O₂ and NO in the presence of Cu-ZnO/Al₂O₃ (Takemoto, T. (179) 279)

Methanol

The optimization of methanol yield in direct selective oxidation of methane with O₂ and NO in the presence of Cu-ZnO/Al₂O₃ (Takemoto, T. (179) 279)

Methyl mercaptane

Photocatalytic activity of hydroxyapatite for methyl mercaptane (Nishikawa, H. (179) 193)

Methyl pyruvate

Examination of the surface chemistry of activated carbon on enantioselective hydrogenation of methyl pyruvate over Pt/C catalysts (Fraga, M.A. (179) 243)

Micelles

Structural effects on the NaOCl epoxidation of styrene in micellar media catalysed by amphiphilised Mn(III)metalloporphyrins (Monti, D. (179) 125)

Effects of salts and mixed aqueous-acetonitrile solvent on the rate of alkaline hydrolysis of 4-nitrophthalimide in the presence of cationic micelles (Niyaz Khan, M. (179) 143)

Mild pressure and temperature

Mild hydrogenation of quinoline. I. Role of reaction parameters (Campanati, M. (179) 287)

Mixed solvents

Effects of salts and mixed aqueous-acetonitrile solvent on the rate of alkaline hydrolysis of 4-nitrophthalimide in the presence of cationic micelles (Niyaz Khan, M. (179) 143)

MnO_x/Al₂O₃ catalyst

Phase transformations in the thermoactivated MnO_x-Al₂O₃ catalytic system (Tsyurulnikov, P.G. (179) 213)

Nafion-H

Carbonylation of alcohols over Nafion-H, a solid perfluoroalkanesulfonic acid resin catalyst (Tsumori, N. (179) 271)

NaX

Effect of rare-earth nature on the basic properties of zeolite NaX containing occluded rare-earth species (Lopes, J.M. (179) 185)

Nitroalkane oxidation

Ferroxime(II)-catalyzed oxygenation of nitroalkanes by *tert*-butyl hydroperoxide and its relevance to 2-nitropropane dioxygenase (Kaizer, J. (179) 35)

4-Nitrophthalimide

Effects of salts and mixed aqueous-acetonitrile solvent on the rate of alkaline hydrolysis of 4-nitrophthalimide in the presence of cationic micelles (Niyaz Khan, M. (179) 143)

2-Nitropropane dioxygenase

Ferroxime(II)-catalyzed oxygenation of nitroalkanes by *tert*-butyl hydroperoxide and its relevance to 2-nitropropane dioxygenase (Kaizer, J. (179) 35)

Non-congested complexes

Unusual polymerization activities of bulky aluminum alkyl complexes (Bi, X. (179) 53)

o-Di(1-butanoxymethyl) benzene

Phase-transfer catalytic reaction of dibromo-*o*-xylene and 1-butanol in two-phase solution (Wang, M.-L. (179) 17)

Olefin polymerization catalyst

Highly active ethylene polymerization catalysts based on titanium complexes having two phenoxy-imine chelate ligands (Ishii, S.-i. (179) 11)

Organolithium compounds

Lithiation of toluene by organolithium compounds activated by lithium polyether alkoxides (Nugay, N. (179) 59)

Oxidation of Ch and T

Oxidation of hydrocarbons by O₂ in the presence of VO(acac)₂ as catalyst (Csányi, L.J. (179) 65)

Oxidation

Liquid phase oxidation of anthracene and *trans*-stilbene over modified mesoporous (MCM-41) molecular sieves (Srinivas, N. (179) 221)

Advances in homogeneous and heterogeneous catalytic aerobic oxidation of isophorone to ketoisophorone (Murphy, E.F. (179) 233)

Oxovanadium(IV) complexes

Synthesis, characterization and study of vanadyl tetradentate Schiff base complexes as catalyst in aerobic selective oxidation of olefins (Boghaei, D.M. (179) 41)

Oxygen

Advances in homogeneous and heterogeneous catalytic aerobic oxidation of isophorone to ketoisophorone (Murphy, E.F. (179) 233)

Palladium catalyst

Enantioselective hydrogenation of exocyclic α,β -unsaturated ketones. Part II. Hydrogenation in the presence of (*S*)-proline (Fogassy, G. (179) 101)

p-Cresol autoxidation

p-Cresol autoxidation using CoAPO-5 prepared by microwave heating of the precursor gel: comparison with homogeneous and biphasic reaction schemes using cobalt salt or complex catalysts (Kim, D.S. (179) 175)

- Pd/Al₂O₃
Mild hydrogenation of quinoline. 1. Role of reaction parameters (Campanati, M. (179) 287)
- Pd/TiO₂
Enantioselective hydrogenation of isophorone with titania supported Pd catalysts modified by (–)-dihydroapovincaminic acid ethyl ester effect of the support and the reduction method (Sípós, E. (179) 107)
- Peroxidase
Comparative study on heme-containing enzyme-like catalytic activities of water-soluble metalloporphyrins (Liu, J.-Y. (179) 27)
- Phase transformation
Phase transformations in the thermoactivated MnO_x-Al₂O₃ catalytic system (Tsyrlunikov, P.G. (179) 213)
- Phase-transfer catalysis
Phase-transfer catalytic reaction of dibromo-*o*-xylene and 1-butanol in two-phase solution (Wang, M.-L. (179) 17)
- Phenoxy-imine ligand
Highly active ethylene polymerization catalysts based on titanium complexes having two phenoxy-imine chelate ligands (Ishii, S.-i. (179) 11)
- Photocatalysis
Photocatalytic activity of hydroxyapatite for methyl mercaptan (Nishikawa, H. (179) 193)
- Photocatalyst
High-pressure photocatalytic reduction of carbon dioxide using [*fac*-Re(bpy)(CO)₃P(OⁱPr)₃]⁺ (bpy = 2,2'-bipyridine) (Hori, H. (179) 1)
- p*-Hydroxybenzaldehyde
p-Cresol autoxidation using CoAPO-5 prepared by microwave heating of the precursor gel: comparison with homogeneous and biphasic reaction schemes using cobalt salt or complex catalysts (Kim, D.S. (179) 175)
- Poly(4-maleimidopyridine)
Syntheses and catalytic properties of alternating copolymers of poly[4-maleimidopyridyl(*p*-cymene)dichloro Ru(II)] with γ -methacryloxypropyl trimethoxysilane (Özdemir, I. (179) 263)
- Polyether alkoxide
Lithiation of toluene by organolithium compounds activated by lithium polyether alkoxides (Nugay, N. (179) 59)
- Polyethylene
Modification of polyethylene polydispersity by blending a Ziegler-Natta catalyst with a group of IV-half metallocene or scorpionate complexes (López-Linares, F. (179) 87)
- Polyimide
Syntheses and catalytic properties of alternating copolymers of poly[4-maleimidopyridyl(*p*-cymene)dichloro Ru(II)] with γ -methacryloxypropyl trimethoxysilane (Özdemir, I. (179) 263)
- Polymer properties
Heterogenized iron(II) complexes as highly active ethene polymerization catalysts (Schmidt, R. (179) 155)
- Polymerization
Unusual polymerization activities of bulky aluminum alkyl complexes (Bi, X. (179) 53)
- Porphyrinoids
Structural effects on the NaOCl epoxidation of styrene in micellar media catalysed by amphiphilised Mn(III)metalloporphyrins (Monti, D. (179) 125)
- Post-metallocene
Highly active ethylene polymerization catalysts based on titanium complexes having two phenoxy-imine chelate ligands (Ishii, S.-i. (179) 11)
- Quinoline hydrogenation
Mild hydrogenation of quinoline. 1. Role of reaction parameters (Campanati, M. (179) 287)
- Racemic
Simultaneous production of chirally enriched epoxides and 1,2-diols from racemic epoxides via hydrolytic kinetic resolution (HKR) (Kureshy, R.I. (179) 73)
- Rare earth
Effect of rare-earth nature on the basic properties of zeolite NaX containing occluded rare-earth species (Lopes, J.M. (179) 185)
- Regioselectivity
Lithiation of toluene by organolithium compounds activated by lithium polyether alkoxides (Nugay, N. (179) 59)
Rhodium-catalyzed hydroformylation of allylbenzenes and propenylbenzenes: effect of phosphine and diphosphine ligands on chemo- and regioselectivity (da Silva, A.C. (179) 133)
- Rh catalysts
Reactivity of the hydrocarbon C–C bonds as a function of the reaction conditions in the conversion of C₆ alkanes and methylcyclopentane over Rh catalysts (Teschner, D. (179) 201)
- Rh/Al₂O₃
Mild hydrogenation of quinoline. 1. Role of reaction parameters (Campanati, M. (179) 287)
- Rhenium
High-pressure photocatalytic reduction of carbon dioxide using [*fac*-Re(bpy)(CO)₃P(OⁱPr)₃]⁺ (bpy = 2,2'-bipyridine) (Hori, H. (179) 1)
- Rhodium
Synthesis of α,ω -epoxyaldehydes by hydroformylation of α,ω -epoxyalkenes (Botteghi, C. (179) 79)
- Ru(II) catalyst
Syntheses and catalytic properties of alternating copolymers of poly[4-maleimidopyridyl(*p*-cymene)dichloro Ru(II)] with γ -methacryloxypropyl trimethoxysilane (Özdemir, I. (179) 263)
- (*S*)-proline
Enantioselective hydrogenation of exocyclic α,β -unsaturated ketones. Part II. Hydrogenation in the presence of (*S*)-proline (Fogassy, G. (179) 101)
- Salts
Effects of salts and mixed aqueous-acetonitrile solvent on the rate of alkaline hydrolysis of 4-nitrophthalimide in the presence of cationic micelles (Niyaz Khan, M. (179) 143)
- Schiff base
Simultaneous production of chirally enriched epoxides and 1,2-diols from racemic epoxides via hydrolytic kinetic resolution (HKR) (Kureshy, R.I. (179) 73)

Selective epoxidation

Synthesis, characterization and study of vanadyl tetradentate Schiff base complexes as catalyst in aerobic selective oxidation of olefins (Boghaei, D.M. (179) 41)

Selective oxidation

The optimization of methanol yield in direct selective oxidation of methane with O₂ and NO in the presence of Cu-ZnO/Al₂O₃ (Takemoto, T. (179) 279)

Selectivity

Structural effects on the NaOCl epoxidation of styrene in micellar media catalysed by amphiphilised Mn(III)metalloporphyrins (Monti, D. (179) 125)

SMSI effect

Liquid-phase hydrogenation of citral over Ir-supported catalysts (Reyes, P. (179) 293)

Solid acids

Carbonylation of alcohols over Nafion-H, a solid perfluoroalkanesulfonic acid resin catalyst (Tsumori, N. (179) 271)

TEM

Phase transformations in the thermoactivated MnO_x-Al₂O₃ catalytic system (Tsyrlunikov, P.G. (179) 213)

tert-Butyl hydroperoxide

Ferroxime(II)-catalyzed oxygenation of nitroalkanes by *tert*-butyl hydroperoxide and its relevance to 2-nitropropane dioxygenase (Kaizer, J. (179) 35)

1,2,3,4-Tetrahydroquinoline

Mild hydrogenation of quinoline. 1. Role of reaction parameters (Campanati, M. (179) 287)

The dimer (oligomer) VO²⁺-(AOT)₂ moderately active catalysts

Oxidation of hydrocarbons by O₂ in the presence of VO(acac)₂ as catalyst (Csányi, L.J. (179) 65)

Titanium

Highly active ethylene polymerization catalysts based on titanium complexes having two phenoxy-imine chelate ligands (Ishii, S.-i. (179) 11)

Transition metal-MCM-41

Liquid phase oxidation of anthracene and *trans*-stilbene over modified mesoporous (MCM-41) molecular sieves (Srinivas, N. (179) 221)

Tris(pyrazolyl)borate

Modification of polyethylene polydispersity by blending a Ziegler-Natta catalyst with a group of IV-half metallocene or scorpionate complexes (López-Linares, F. (179) 87)

Vanadyl Schiff base complexes

Synthesis, characterization and study of vanadyl tetradentate Schiff base complexes as catalyst in aerobic selective oxidation of olefins (Boghaei, D.M. (179) 41)

Vanadyl tetradentate Schiff base

Synthesis, characterization and study of vanadyl tetradentate Schiff base complexes as catalyst in aerobic selective oxidation of olefins (Boghaei, D.M. (179) 41)

VO(acac)₂ monomer active oxidation

Oxidation of hydrocarbons by O₂ in the presence of VO(acac)₂ as catalyst (Csányi, L.J. (179) 65)

Xantphos

Synthesis of α,ω -epoxyaldehydes by hydroformylation of α,ω -epoxyalkenes (Botteghi, C. (179) 79)

XPS

Phase transformations in the thermoactivated MnO_x-Al₂O₃ catalytic system (Tsyrlunikov, P.G. (179) 213)

XRD

Phase transformations in the thermoactivated MnO_x-Al₂O₃ catalytic system (Tsyrlunikov, P.G. (179) 213)

Zeolite catalyst

Study on alkylation of benzene with ethylene over β -zeolite catalyst to ethylbenzene by in situ IR (Du, Y. (179) 253)

Zeolites

Effect of rare-earth nature on the basic properties of zeolite NaX containing occluded rare-earth species (Lopes, J.M. (179) 185)

Ziegler-Natta

Modification of polyethylene polydispersity by blending a Ziegler-Natta catalyst with a group of IV-half metallocene or scorpionate complexes (López-Linares, F. (179) 87)