

Journal of Molecular Catalysis A: Chemical 174 (2001) 301-306



www.elsevier.com/locate/molcata

Subject index

Ab initio quantum chemical methods

On the nature of RuS2 HDS active sites: insight from ab initio theory (Grillo, M.E. (174) 239)

Acid catalysis

Acidity and reactivity of trifluoromethanesulfonic acid in liquid and solid acid catalysts (Marziano, N.C. (174) 265)

Adsorption strength

Effect of second metals and Cu content on catalyst performance of Ni–Cu/SiO₂ in the hydrodechlorination of 1,1,2-trichloroethane into vinyl chloride monomer (Choi, Y.H. (174) 193)

Allylic alkylation

Preparation and application of polymer-supported π -allylpalladium complex as a chiral catalyst in the asymmetric allylic alkylation (Park, H.-J. (174) 151)

Aminoalkoxypentaerythritols

Study on catalytic hydrogenation in synthesis of four-directional amine-terminated dendritic molecules (Hukkamäki, J. (174) 205)

Aniline

Reduction of nitrobenzene to aniline by CO/H_2O , catalysed by $Ru_3(CO)_{12}$ /chelating diimines (Ragaini, F. (174) 51)

Ansa half-sandwich complexes

Diastereomeric amido functionalized *ansa* half-sandwich complexes of titanium and zirconium as catalyst precursors for ethylene polymerization to give resins with bimodal molecular weight distributions (Reb, A. (174) 35)

Aqueous biphasic catalysis

Asymmetric hydroformylation and hydrogenation catalyzed by chiral rhodium and ruthenium complexes of phosphorylated 2,2'-bis(diphenyl-phosphino)-1,1'-binaphthyls (Köckritz, A. (174) 119)

Arenes

Homogeneous hydrogenation of arenes catalyzed by the bis(di-hydrogen) complex $[RuH_2(H_2)_2(PCy_3)_2]$ (Borowski, A.F. (174) 69)

Asymmetric epoxidation

Enhanced activity of enantioselective (salen)Mn(III) epoxidation catalysts through supramolecular complexation (Morris, G.A. (174) 15)

Asymmetric hydroformylation

Asymmetric hydroformylation and hydrogenation catalyzed by chiral rhodium and ruthenium complexes of phosphorylated 2,2'-bis(diphenyl-phosphino)-1,1'-binaphthyls (Köckritz, A. (174) 119)

Asymmetric hydrogenation

Asymmetric hydroformylation and hydrogenation catalyzed by chiral rhodium and ruthenium complexes of phosphorylated 2,2'-bis(diphenyl-phosphino)-1,1'-binaphthyls (Köckritz, A. (174) 119)

Benzovlation

Benzoylation of substituted arenes using Zn-and Fe-exchanged zeolites as catalysts (Laidlaw, P. (174) 187)

Bimodal polyethylene

Diastereomeric amido functionalized *ansa* half-sandwich complexes of titanium and zirconium as catalyst precursors for ethylene polymerization to give resins with bimodal molecular weight distributions (Reb, A. (174) 35)

Bis-functional support

Cationic manganese(III) porphyrins bound to a novel bis-functionalised silica as catalysts for hydrocarbons oxygenation by iodosylbenzene and hydrogen peroxide (Vinhado, F.S. (174) 279)

Butene

Solid-state NMR studies of *n*-butene isomerisation over H-ferrierite (Philippou, A. (174) 223)

C9-aldehydes

Hydroformylation of mixture of isomeric octenes to C_9 -aldehydes catalyzed by Rh–phosphine oxide complexes (He, D. (174) 21)

Campholenic aldehyde

Redox-mesoporous molecular sieve as a bifunctional catalyst for the one-pot synthesis of campholenic aldehyde from α -pinene (Suh, Y.-W. (174) 249)

Carbamates

The kinetics and mechanism of the reaction between carbon dioxide and a series of amines. Observation and interpretation of an isokinetic effect (Aresta, M. (174) 7)

Carbon dioxide

The kinetics and mechanism of the reaction between carbon dioxide and a series of amines. Observation and interpretation of an isokinetic effect (Aresta, M. (174) 7)

Catalysis

The kinetics and mechanism of the reaction between carbon dioxide and a series of amines. Observation and interpretation of an isokinetic effect (Aresta, M. (174) 7)

Mechanism of heterogeneous gas phase dehydration of 1-methylcyclohexanol catalysed by metal(IV) phosphates (Johnstone, R.A.W. (174) 159)

Catalytic activity of nitro- and carboxy-substituted iron porphyrins in hydrocarbon oxidation. Homogeneous solution and supported systems (Schiavon, M.A. (174) 213)

In situ PHIP NMR — a new tool to investigate hydrogenation mediated by colloidal catalysts (Eichhorn, A. (174) 293)

Catalysts

Benzoylation of substituted arenes using Zn-and Fe-exchanged zeolites as catalysts (Laidlaw, P. (174) 187)

Catalytic epoxidation

Enhanced activity of enantioselective (salen)Mn(III) epoxidation catalysts through supramolecular complexation (Morris, G.A. (174) 15)

Chemically modified electrode

Preparation and properties of an electrode with platinum microcrystals dispersed in films of poly(allyl ether *p*-benzeneammonium derivatives). Electrocatalytic hydrogenation of organic substrates (Lofrano, R.C.Z. (174) 231)

Chiral ligand

Regio- and stereoselective alternating copolymerization of carbon monoxide with functionalized olefins (Yuan, J.C. (174) 63)

CO/H2O

Reduction of nitrobenzene to aniline by CO/H₂O, catalysed by Ru₃(CO)₁₂/chelating diimines (Ragaini, F. (174) 51)

Colloid

In situ PHIP NMR — a new tool to investigate hydrogenation mediated by colloidal catalysts (Eichhorn, A. (174) 293)

Confocal Raman microspectrocopy

Mixed molybdenum oxide based partial oxidation catalyst. 2. Combined X-ray diffraction, electron microscopy and Raman investigation of the phase stability of (MoVW)₅O₁₄-type oxides (Dieterle, M. (174) 169)

Cytochrome c_3

The role of specific lysine in cytochrome c_3 on the electron transfer with hydrogenase (Asakura, N. (174) 289)

Dehydration

Mechanism of heterogeneous gas phase dehydration of 1-methylcyclohexanol catalysed by metal(IV) phosphates (Johnstone, R.A.W. (174) 159)

Dihydrogen complexes

Homogeneous hydrogenation of arenes catalyzed by the bis(di-hydrogen) complex $[RuH_2(H_2)_2(PCy_3)_2]$ (Borowski, A.F. (174) 69)

Dimethylcarbonate

The kinetics and mechanism of the reaction between carbon dioxide and a series of amines. Observation and interpretation of an isokinetic effect (Aresta, M. (174) 7)

Desulfovibrio vulgaris

The role of specific lysine in cytochrome c_3 on the electron transfer with hydrogenase (Asakura, N. (174) 289)

Electrocatalytic hydrogenation

Preparation and properties of an electrode with platinum microcrystals dispersed in films of poly(allyl ether *p*-benzeneammonium derivatives). Electrocatalytic hydrogenation of organic substrates (Lofrano, R.C.Z. (174) 231)

Enantioselective alternating copolymerization

Regio- and stereoselective alternating copolymerization of carbon monoxide with functionalized olefins (Yuan, J.C. (174) 63)

Enantioselective

Preparation and application of polymer-supported π -allylpalladium complex as a chiral catalyst in the asymmetric allylic alkylation (Park, H.-J. (174) 151)

Epoxidation

Redox-mesoporous molecular sieve as a bifunctional catalyst for the one-pot synthesis of campholenic aldehyde from α -pinene (Suh, Y.-W. (174) 249)

Ethylene polymerization

Diastereomeric amido functionalized *ansa* half-sandwich complexes of titanium and zirconium as catalyst precursors for ethylene polymerization to give resins with bimodal molecular weight distributions (Reb, A. (174) 35)

Ethylene

Ethylene/α-olefin copolymerization by various nonbridged (cyclopentadienyl)(aryloxy)titanium(IV) complexes — MAO catalyst system (Nomura, K. (174) 127)

Ethynylbenzene

In situ PHIP NMR — a new tool to investigate hydrogenation mediated by colloidal catalysts (Eichhorn, A. (174) 293)

Ferrierite

Solid-state NMR studies of *n*-butene isomerisation over H-ferrierite (Philippou, A. (174) 223)

Group IV metal

Diastereomeric amido functionalized *ansa* half-sandwich complexes of titanium and zirconium as catalyst precursors for ethylene polymerization to give resins with bimodal molecular weight distributions (Reb, A. (174) 35)

HC1

Effect of second metals and Cu content on catalyst performance of Ni–Cu/SiO₂ in the hydrodechlorination of 1,1,2-trichloroethane into vinyl chloride monomer (Choi, Y.H. (174) 193) Heterogeneous catalyst

Evidence for the anchoring of 2-amino-3-methyl-1-butanol at the surface of NiB₂ agglomerate by inelastic neutron spectroscopy (Molvinger, K. (174) 245)

Homogeneous catalysis

Reduction of nitrobenzene to aniline by CO/H₂O, catalysed by Ru₃(CO)₁₂/chelating diimines (Ragaini, F. (174) 51)

Homogeneous hydrogenation of imines catalyzed by rhodium and iridium complexes. Kinetics and mechanism of the hydrogenation of N-(β -naphthyl methylene) aniline using [Ir(COD)(PPh₃)₂]PF₆ as catalyst precursor (Herrera, V. (174) 141)

Homogeneous catalyst

Evidence for the anchoring of 2-amino-3-methyl-1-butanol at the surface of NiB₂ agglomerate by inelastic neutron spectroscopy (Molvinger, K. (174) 245)

Homogeneous polymerization

Diastereomeric amido functionalized ansa half-sandwich complexes of titanium and zirconium as catalyst precursors for

ethylene polymerization to give resins with bimodal molecular weight distributions (Reb, A. (174) 35)

HRTEM

Mixed molybdenum oxide based partial oxidation catalyst. 2. Combined X-ray diffraction, electron microscopy and Raman investigation of the phase stability of (MoVW)₅O₁₄-type oxides (Dieterle, M. (174) 169)

Hydrocarbons oxygenation

Cationic manganese(III) porphyrins bound to a novel bis-functionalised silica as catalysts for hydrocarbons oxygenation by iodosylbenzene and hydrogen peroxide (Vinhado, F.S. (174) 279)

Hydrodechlorination

Effect of second metals and Cu content on catalyst performance of Ni–Cu/SiO₂ in the hydrodechlorination of 1,1,2-trichloroethane into vinyl chloride monomer (Choi, Y.H. (174) 193)

Hydroformylation

Hydroformylation of mixture of isomeric octenes to C_9 -aldehydes catalyzed by Rh-phosphine oxide complexes (He, D. (174) 21)

Hydrogen evolution

Lysine-linked viologen for substrate of hydrogenase on hydrogen evolution (Asakura, N. (174) 1)

Hydrogen peroxide

Cationic manganese(III) porphyrins bound to a novel bis-functionalised silica as catalysts for hydrocarbons oxygenation by iodosylbenzene and hydrogen peroxide (Vinhado, F.S. (174) 279)

Hydrogenase

Lysine-linked viologen for substrate of hydrogenase on hydrogen evolution (Asakura, N. (174) 1)

The role of specific lysine in cytochrome c₃ on the electron transfer with hydrogenase (Asakura, N. (174) 289)

Hydrogenation of imines

Homogeneous hydrogenation of imines catalyzed by rhodium and iridium complexes. Kinetics and mechanism of the hydrogenation of N-(β -naphthyl methylene) aniline using [Ir(COD)(PPh₃)₂]PF₆ as catalyst precursor (Herrera, V. (174) 141)

Hydrogenation

Homogeneous hydrogenation of arenes catalyzed by the bis(di-hydrogen) complex $[RuH_2(H_2)_2(PCy_3)_2]$ (Borowski, A.F. (174) 69)

In situ PHIP NMR — a new tool to investigate hydrogenation mediated by colloidal catalysts (Eichhorn, A. (174) 293)

Hydrogenations

Study on catalytic hydrogenation in synthesis of four-directional amine-terminated dendritic molecules (Hukkamäki, J. (174) 205)

Hydrolyses

Amphiphilic quaternary pyridinium ketoximes as functional hydrolytic micellar catalysts — does the nucleophilic function position influence their reactivity? (Kotoučová, H. (174) 59)

4-Hydroxypropiophenone

Propionylation of phenol to 4-hydroxypropiophenone over zeo-lite H-beta (Chaube, V.D. (174) 255)

Imines

Reduction of nitrobenzene to aniline by CO/H₂O, catalysed by Ru₃(CO)₁₂/chelating diimines (Ragaini, F. (174) 51)

Inelastic neutron spectroscopy

Evidence for the anchoring of 2-amino-3-methyl-1-butanol at the surface of NiB₂ agglomerate by inelastic neutron spectroscopy (Molvinger, K. (174) 245)

Iridium

Homogeneous hydrogenation of imines catalyzed by rhodium and iridium complexes. Kinetics and mechanism of the hydrogenation of *N*-(β-naphthyl methylene) aniline using [Ir(COD)(PPh₃)₂]PF₆ as catalyst precursor (Herrera, V. (174) 141)

Iron porphyrin

Catalytic activity of nitro- and carboxy-substituted iron porphyrins in hydrocarbon oxidation. Homogeneous solution and supported systems (Schiavon, M.A. (174) 213)

Isomerisation

Solid-state NMR studies of *n*-butene isomerisation over H-ferrierite (Philippou, A. (174) 223)

Isotactic copolymer

Regio- and stereoselective alternating copolymerization of carbon monoxide with functionalized olefins (Yuan, J.C. (174) 63)

Kinetic

Amphiphilic quaternary pyridinium ketoximes as functional hydrolytic micellar catalysts — does the nucleophilic function position influence their reactivity? (Kotoučová, H. (174) 59) Homogeneous hydrogenation of imines catalyzed by rhodium and iridium complexes. Kinetics and mechanism of the hydrogenation of N-(β -naphthyl methylene) aniline using [Ir(COD)(PPh₃)₂]PF₆ as catalyst precursor (Herrera, V. (174) 141)

Low index single crystal surfaces

On the nature of RuS2 HDS active sites: insight from ab initio theory (Grillo, M.E. (174) 239)

Low molecular weight dendrimers

Study on catalytic hydrogenation in synthesis of four-directional amine-terminated dendritic molecules (Hukkamäki, J. (174) 205)

Lysine

Lysine-linked viologen for substrate of hydrogenase on hydrogen evolution (Asakura, N. (174) 1)

Lysine

The role of specific lysine in cytochrome c_3 on the electron transfer with hydrogenase (Asakura, N. (174) 289)

Manganese tetraazaporphines

Mechanism of the interaction of Mn tetraazaporphines with peracetic acid. The comparative reactivity of Mn(III) porphinoid complexes in the formation of Mn-oxenes (Barkanova, S.V. (174) 89)

Manganese

Enhanced activity of enantioselective (salen)Mn(III) epoxidation catalysts through supramolecular complexation (Morris, G.A. (174) 15)

Manganese(III) porphyrin

Cationic manganese(III) porphyrins bound to a novel bis-functionalised silica as catalysts for hydrocarbons oxygenation by iodosylbenzene and hydrogen peroxide (Vinhado, F.S. (174) 279)

Mechanism

Mechanism of the interaction of Mn tetraazaporphines with peracetic acid. The comparative reactivity of Mn(III) porphinoid complexes in the formation of Mn-oxenes (Barkanova, S.V. (174) 89)

Homogeneous hydrogenation of imines catalyzed by rhodium and iridium complexes. Kinetics and mechanism of the hydrogenation of N-(β -naphthyl methylene) aniline using [Ir(COD)(PPh₃)₂]PF₆ as catalyst precursor (Herrera, V. (174) 141)

Mechanism of heterogeneous gas phase dehydration of 1-methylcyclohexanol catalysed by metal(IV) phosphates (Johnstone, R.A.W. (174) 159)

Metal particle size

Effect of second metals and Cu content on catalyst performance of Ni–Cu/SiO₂ in the hydrodechlorination of 1,1,2-tri-chloroethane into vinyl chloride monomer (Choi, Y.H. (174) 193)

Metallocene catalyst

Structure and performance of the solid methylalumoxane at temperatures 20–250°C. Experimental and DFT calculation study (Panchenko, V.N. (174) 107)

Metalloporphyrins

Catalytic activity of nitro- and carboxy-substituted iron porphyrins in hydrocarbon oxidation. Homogeneous solution and supported systems (Schiavon, M.A. (174) 213)

Methylaluminoxane

The negative role of chloride counter-anion in the activation process of zirconocene dichloride by methylaluminoxane (Pédeutour, J.-N. (174) 81)

Methylalumoxane structure

Structure and performance of the solid methylalumoxane at temperatures 20–250°C. Experimental and DFT calculation study (Panchenko, V.N. (174) 107)

1-Methylcyclohexanol

Mechanism of heterogeneous gas phase dehydration of 1-methylcyclohexanol catalysed by metal(IV) phosphates (Johnstone, R.A.W. (174) 159)

Micelles

Amphiphilic quaternary pyridinium ketoximes as functional hydrolytic micellar catalysts — does the nucleophilic function position influence their reactivity? (Kotoučová, H. (174) 59)

Mixture of isomeric octenes

Hydroformylation of mixture of isomeric octenes to C_9 -aldehydes catalyzed by Rh–phosphine oxide complexes (He, D. (174) 21)

Mo₅O₁₄-type MoVW mixed oxide catalysts

Mixed molybdenum oxide based partial oxidation catalyst. 2. Combined X-ray diffraction, electron microscopy and Raman investigation of the phase stability of $(MoVW)_5O_{14}$ -type oxides (Dieterle, M. (174) 169)

Ni-Cu/SiO₂

Effect of second metals and Cu content on catalyst performance of Ni–Cu/SiO₂ in the hydrodechlorination of 1,1,2-trichloroethane into vinyl chloride monomer (Choi, Y.H. (174) 193)

Nitrobenzene

Reduction of nitrobenzene to aniline by CO/H₂O, catalysed by Ru₃(CO)₁₂/chelating diimines (Ragaini, F. (174) 51)

NMR

Solid-state NMR studies of *n*-butene isomerisation over H-ferrierite (Philippou, A. (174) 223)

Olefin polymerization

Ethylene/α-olefin copolymerization by various nonbridged (cyclopentadienyl)(aryloxy)titanium(IV) complexes — MAO catalyst system (Nomura, K. (174) 127)

Optical activity

Regio- and stereoselective alternating copolymerization of carbon monoxide with functionalized olefins (Yuan, J.C. (174) 63)

Oxazaborolidine

Evidence for the anchoring of 2-amino-3-methyl-1-butanol at the surface of NiB₂ agglomerate by inelastic neutron spectroscopy (Molvinger, K. (174) 245)

Oxidation

Mechanism of the interaction of Mn tetraazaporphines with peracetic acid. The comparative reactivity of Mn(III) porphinoid complexes in the formation of Mn-oxenes (Barkanova, S.V. (174) 89)

Palladium catalyst

Regio- and stereoselective alternating copolymerization of carbon monoxide with functionalized olefins (Yuan, J.C. (174) 63) Preparation and application of polymer-supported π -allylpalladium complex as a chiral catalyst in the asymmetric allylic alkylation (Park, H.-J. (174) 151)

Parahydrogen

In situ PHIP NMR — a new tool to investigate hydrogenation mediated by colloidal catalysts (Eichhorn, A. (174) 293)

Peracetic acid

Mechanism of the interaction of Mn tetraazaporphines with peracetic acid. The comparative reactivity of Mn(III) porphinoid complexes in the formation of Mn-oxenes (Barkanova, S.V. (174) 89)

PHIE

In situ PHIP NMR — a new tool to investigate hydrogenation mediated by colloidal catalysts (Eichhorn, A. (174) 293)

Phosphates

Amphiphilic quaternary pyridinium ketoximes as functional hydrolytic micellar catalysts — does the nucleophilic function position influence their reactivity? (Kotoučová, H. (174) 59)

Phosphine oxide

Hydroformylation of mixture of isomeric octenes to C₉-aldehydes catalyzed by Rh-phosphine oxide complexes (He, D. (174) 21)

α-Pinene

Redox-mesoporous molecular sieve as a bifunctional catalyst for the one-pot synthesis of campholenic aldehyde from α -pinene (Suh, Y.-W. (174) 249)

Platinum microcrystal

Preparation and properties of an electrode with platinum microcrystals dispersed in films of poly(allyl ether *p*-benzeneammonium derivatives). Electrocatalytic hydrogenation of organic substrates (Lofrano, R.C.Z. (174) 231)

Polymer-supported

Preparation and application of polymer-supported π -allylpalladium complex as a chiral catalyst in the asymmetric allylic alkylation (Park, H.-J. (174) 151)

Porphyrin

Catalytic activity of nitro- and carboxy-substituted iron porphyrins in hydrocarbon oxidation. Homogeneous solution and supported systems (Schiavon, M.A. (174) 213)

Propionylation of phenol

Propionylation of phenol to 4-hydroxypropiophenone over zeo-lite H-beta (Chaube, V.D. (174) 255)

Pyridinium salts

Amphiphilic quaternary pyridinium ketoximes as functional hydrolytic micellar catalysts — does the nucleophilic function position influence their reactivity? (Kotoučová, H. (174) 59)

Raney nickel

Study on catalytic hydrogenation in synthesis of four-directional amine-terminated dendritic molecules (Hukkamäki, J. (174) 205)

Rearrangement

Redox-mesoporous molecular sieve as a bifunctional catalyst for the one-pot synthesis of campholenic aldehyde from α -pinene (Suh, Y.-W. (174) 249)

Redox-mesoporous molecular sieve

Redox-mesoporous molecular sieve as a bifunctional catalyst for the one-pot synthesis of campholenic aldehyde from α -pinene (Suh, Y.-W. (174) 249)

Reduction

Reduction of nitrobenzene to aniline by CO/H₂O, catalysed by Ru₃(CO)₁₂/chelating diimines (Ragaini, F. (174) 51)

Rhodium complex

Hydroformylation of mixture of isomeric octenes to C_9 -aldehydes catalyzed by Rh–phosphine oxide complexes (He, D. (174) 21)

Rhodium

Asymmetric hydroformylation and hydrogenation catalyzed by chiral rhodium and ruthenium complexes of phosphorylated 2,2'-bis(diphenyl-phosphino)-1,1'-binaphthyls (Köckritz, A. (174) 119)

Homogeneous hydrogenation of imines catalyzed by rhodium and iridium complexes. Kinetics and mechanism of the hydrogenation of N-(β -naphthyl methylene) aniline using [Ir(COD)(PPh₃)₂]PF₆ as catalyst precursor (Herrera, V. (174) 141)

Role of co-catalyst

Cationic manganese(III) porphyrins bound to a novel bis-functionalised silica as catalysts for hydrocarbons oxygenation by iodosylbenzene and hydrogen peroxide (Vinhado, F.S. (174) 279)

$Ru_3(CO)_{12}$

Reduction of nitrobenzene to aniline by CO/H₂O, catalysed by Ru₃(CO)₁₂/chelating diimines (Ragaini, F. (174) 51)

Ruthenium

Homogeneous hydrogenation of arenes catalyzed by the bis(di-hydrogen) complex $[RuH_2(H_2)_2(PCy_3)_2]$ (Borowski, A.F. (174) 69)

Asymmetric hydroformylation and hydrogenation catalyzed by chiral rhodium and ruthenium complexes of phosphorylated 2,2'-bis(diphenyl-phosphino)-1,1'-binaphthyls (Köckritz, A. (174) 119)

On the nature of RuS2 HDS active sites: insight from ab initio theory (Grillo, M.E. (174) 239)

Salen

Enhanced activity of enantioselective (salen)Mn(III) epoxidation catalysts through supramolecular complexation (Morris, G.A. (174) 15)

Selective energy transfer (SET) model

The kinetics and mechanism of the reaction between carbon dioxide and a series of amines. Observation and interpretation of an isokinetic effect (Aresta, M. (174) 7)

Selective partial oxidation

Mixed molybdenum oxide based partial oxidation catalyst. 2. Combined X-ray diffraction, electron microscopy and Raman investigation of the phase stability of (MoVW)₅O₁₄-type oxides (Dieterle, M. (174) 169)

Semiconducting surfaces

On the nature of RuS2 HDS active sites: insight from ab initio theory (Grillo, M.E. (174) 239)

Structural characterization

Mixed molybdenum oxide based partial oxidation catalyst. 2. Combined X-ray diffraction, electron microscopy and Raman investigation of the phase stability of (MoVW)₅O₁₄-type oxides (Dieterle, M. (174) 169)

Styrene

In situ PHIP NMR — a new tool to investigate hydrogenation mediated by colloidal catalysts (Eichhorn, A. (174) 293)

Sulphides

On the nature of RuS2 HDS active sites: insight from ab initio theory (Grillo, M.E. (174) 239)

Supported catalysts

Catalytic activity of nitro- and carboxy-substituted iron porphyrins in hydrocarbon oxidation. Homogeneous solution and supported systems (Schiavon, M.A. (174) 213)

Supramolecular chemistry

Enhanced activity of enantioselective (salen)Mn(III) epoxidation catalysts through supramolecular complexation (Morris, G.A. (174) 15)

Surface acidity

Acidity and reactivity of trifluoromethanesulfonic acid in liquid and solid acid catalysts (Marziano, N.C. (174) 265)

Surface energy

On the nature of RuS2 HDS active sites: insight from ab initio theory (Grillo, M.E. (174) 239)

Surface relaxation and reconstruction

On the nature of RuS2 HDS active sites: insight from ab initio theory (Grillo, M.E. (174) 239)

Ti-HMS catalyst

Redox-mesoporous molecular sieve as a bifunctional catalyst for the one-pot synthesis of campholenic aldehyde from α -pinene (Suh, Y.-W. (174) 249)

Titanium(IV)

Ethylene/α-olefin copolymerization by various nonbridged (cyclopentadienyl)(aryloxy)titanium(IV) complexes — MAO catalyst system (Nomura, K. (174) 127)

1,1,2-Trichloroethane

Effect of second metals and Cu content on catalyst performance of Ni–Cu/SiO $_2$ in the hydrodechlorination of 1,1,2-trichloroethane into vinyl chloride monomer (Choi, Y.H. (174) 193)

Trifluoromethanesulfonic acid

Acidity and reactivity of trifluoromethanesulfonic acid in liquid and solid acid catalysts (Marziano, N.C. (174) 265)

Trimethylaluminium

The negative role of chloride counter-anion in the activation process of zirconocene dichloride by methylaluminoxane (Pédeutour, J.-N. (174) 81)

UV-VIS spectroscopy

The negative role of chloride counter-anion in the activation process of zirconocene dichloride by methylaluminoxane (Pédeutour, J.-N. (174) 81)

Vinyl chloride monomer

Effect of second metals and Cu content on catalyst performance of Ni–Cu/SiO₂ in the hydrodechlorination of 1,1,2-tri-chloroethane into vinyl chloride monomer (Choi, Y.H. (174) 193)

Viologen

Lysine-linked viologen for substrate of hydrogenase on hydrogen evolution (Asakura, N. (174) 1)

XRD

Mixed molybdenum oxide based partial oxidation catalyst. 2. Combined X-ray diffraction, electron microscopy and Raman investigation of the phase stability of (MoVW)₅O₁₄-type oxides (Dieterle, M. (174) 169)

Zeolite H-beta

Propionylation of phenol to 4-hydroxypropiophenone over zeolite H-beta (Chaube, V.D. (174) 255)

Zeolites

Benzoylation of substituted arenes using Zn-and Fe-exchanged zeolites as catalysts (Laidlaw, P. (174) 187)

Solid-state NMR studies of *n*-butene isomerisation over H-ferrierite (Philippou, A. (174) 223)

Zirconium phosphate

Mechanism of heterogeneous gas phase dehydration of 1-methylcyclohexanol catalysed by metal(IV) phosphates (Johnstone, R.A.W. (174) 159)

Zirconocene dichloride

The negative role of chloride counter-anion in the activation process of zirconocene dichloride by methylaluminoxane (Pédeutour, J.-N. (174) 81)

Zirconocene

The negative role of chloride counter-anion in the activation process of zirconocene dichloride by methylaluminoxane (Pédeutour, J.-N. (174) 81)