

JOURNAL OF MOLECULAR A: CHEMICAL

Journal of Molecular Catalysis A: Chemical 215 (2004) 211-214

www.elsevier.com/locate/molcata

Subject index

Acetic acid

Carbon monoxide–ethylene copolymerisation catalysed by [PdCl₂(dppp)] in methanol–water or in acetic acid–water as solvents (dppp = 1,3-bis(diphenylphosphine)propane) (Vavasori, A. (215) 63)

Acid catalysis

Hydrothermally synthesized high silica mordenite as an efficient catalyst in alkylation reaction under liquid phase condition (Samanta, S. (215) 169)

Acylal

Indium triflate: a reusable catalyst for expeditious chemoselective conversion of aldehydes to acylals (Ghosh, R. (215) 49)

Acylation

Acylation of toluene using rare earth cation exchanged zeolite β as solid acid catalyst (Sheemol, V.N. (215) 201)

AlPO-5

Crystallization and characterization of high silica silicoaluminophosphate SAPO-5 (Seelan, S. (215) 149)

Aldehydes

Re-evaluation of the mechanism of the stoichiometric hydroformylation of olefins with cobalt carbonyls as catalysts (Tannenbaum, R. (215) 33)

- Aldehydes
 - Synthesis of novel rhodium-carbene complexes as efficient catalysts for addition of phenylboronic acid to aldehydes (Özdemir, I. (215) 45)

alkylation

Crystallization and characterization of high silica silicoaluminophosphate SAPO-5 (Seelan, S. (215) 149)

2-Aminophenol

Functional phenoxazinone synthase models. Kinetic studies on the copper-catalyzed oxygenation of 2-aminophenol (Horváth, T. (215) 9) Ammonia

An FT-IR study of the adsorption and oxidation of N-containing compounds over Fe₂O₃/Al₂O₃ SCR catalysts (Ramis, G. (215) 161)

Anisole

- Non-heme iron polyazadentate complexes as catalysts for oxidations by H_2O_2 : particular efficiency in aromatic hydroxylations and beneficial effects of a reducing agent (Balland, V. (215) 81)
- Aqueous micelles
 - Palladium-catalyzed asymmetric arylation of 2,3-dihydrofuran with aryl triflates in water in the presence of surfactants (Rabeyrin, C. (215) 89)
- Aromatics generation

Effect of ZSM-5 on the aromatization performance in cracking catalyst (Liu, C. (215) 195)

Arylation

Synthesis of novel rhodium–carbene complexes as efficient catalysts for addition of phenylboronic acid to aldehydes (Özdemir, I. (215) 45) Asymmetric arylation

Palladium-catalyzed asymmetric arylation of 2,3-dihydrofuran with aryl triflates in water in the presence of surfactants (Rabeyrin, C. (215) 89)

Asymmetric catalysis

Molecular building block approaches to chiral porous zirconium phosphonates for asymmetric catalysis (Ngo, H.L. (215) 177)

Asymmetric

Ruthenium(II)-assisted asymmetric hydrogen transfer reduction of acetophenone using chiral tridentate phosphorus-containing ligands derived from (1*R*, 2*R*)-1,2-diaminocyclohexane (Flores-López, C.Z. (215) 73)

Benzisothiazoles

Heteroaromatic benzyl ethers as intermediates for palladium-catalysed transfer hydrogenolysis of benzyl alcohols (Araújo, N.C.P. (215) 113)

Borohydride

Simplified single-step synthetic route for the preparation of a highly active gold-based catalyst for CO oxidation (Mallick, K. (215) 103) Brönsted acidity

Acylation of toluene using rare earth cation exchanged zeolite β as solid acid catalyst (Sheemol, V.N. (215) 201)

1,4-Butanediol

Active phases of supported cobalt catalysts for 2,3-dihydrofuran synthesis (Leite, L. (215) 95)

Carbon monoxide

Carbon monoxide–ethylene copolymerisation catalysed by $[PdCl_2(dppp)]$ in methanol–water or in acetic acid–water as solvents (dppp = 1,3-bis(diphenylphosphine)propane) (Vavasori, A. (215) 63)

Carbon monoxide

Simplified single-step synthetic route for the preparation of a highly active gold-based catalyst for CO oxidation (Mallick, K. (215) 103) Carbonate cleavage

Cleavage of water-insoluble alkylallylcarbonates catalysed by a palladium/TPPTS/cyclodextrin system: effect of phosphine/cyclodextrin

- interactions on the reaction rate (Binkowski, C. (215) 23)
- Catalysed

Indium triflate: a reusable catalyst for expeditious chemoselective conversion of aldehydes to acylals (Ghosh, R. (215) 49)

Catalyst

A view on the mechanism of metalloporphyrin degradation in hydrogen peroxide epoxidation reactions (Serra, A.C. (215) 17)

Chemoselective

Indium triflate: a reusable catalyst for expeditious chemoselective conversion of aldehydes to acylals (Ghosh, R. (215) 49)

Cobalt catalyst

Active phases of supported cobalt catalysts for 2,3-dihydrofuran synthesis (Leite, L. (215) 95)

Cobalt catalysts

Re-evaluation of the mechanism of the stoichiometric hydroformylation of olefins with cobalt carbonyls as catalysts (Tannenbaum, R. (215) 33)

Copolymerisation

Carbon monoxide–ethylene copolymerisation catalysed by $[PdCl_2(dppp)]$ in methanol–water or in acetic acid–water as solvents (dppp = 1,3-bis(diphenylphosphine)propane) (Vavasori, A. (215) 63) Cracking

Hydrothermally synthesized high silica mordenite as an efficient catalyst in alkylation reaction under liquid phase condition (Samanta, S. (215) 169)

Cyclodextrins

Cleavage of water-insoluble alkylallylcarbonates catalysed by a palladium/TPPTS/cyclodextrin system: effect of phosphine/cyclodextrin interactions on the reaction rate (Binkowski, C. (215) 23)

Degradation

A view on the mechanism of metalloporphyrin degradation in hydrogen peroxide epoxidation reactions (Serra, A.C. (215) 17)

Dehydrogenation

Active phases of supported cobalt catalysts for 2,3-dihydrofuran synthesis (Leite, L. (215) 95)

DFT

Theoretical estimation of acid-base properties of Lewis and Brønsted centres at the V-W-O catalyst surface: water molecule as the probe in DFT calculations (Góra, A. (215) 187)

2,3-Dihydrofuran

Active phases of supported cobalt catalysts for 2,3-dihydrofuran synthesis (Leite, L. (215) 95)

Dioxygen

Functional phenoxazinone synthase models. Kinetic studies on the copper-catalyzed oxygenation of 2-aminophenol (Horváth, T. (215) 9)

dppp

Carbon monoxide–ethylene copolymerisation catalysed by $[PdCl_2(dppp)]$ in methanol–water or in acetic acid–water as solvents (dppp = 1,3-bis(diphenylphosphine)propane) (Vavasori, A. (215) 63)

Epoxides

A facile conversion of epoxides to halohydrins with elemental halogen using isonicotinic hydrazide (isoniazide) as a new catalyst (Sharghi, H. (215) 55)

Ethanol

Gas-phase ethanol photocatalytic degradation study with TiO_2 doped with Fe, Pd and Cu (Araña, J. (215) 153)

Ethylene

Carbon monoxide–ethylene copolymerisation catalysed by $[PdCl_2(dppp)]$ in methanol–water or in acetic acid–water as solvents (dppp = 1,3-bis(diphenylphosphine)propane) (Vavasori, A. (215) 63) FCC catalyst

Effect of ZSM-5 on the aromatization performance in cracking catalyst (Liu, C. (215) 195)

Gas-phase

Gas-phase ethanol photocatalytic degradation study with TiO_2 doped with Fe, Pd and Cu (Araña, J. (215) 153)

Gold promotion

Active phases of supported cobalt catalysts for 2,3-dihydrofuran synthesis (Leite, L. (215) 95)

Gold

Simplified single-step synthetic route for the preparation of a highly active gold-based catalyst for CO oxidation (Mallick, K. (215) 103)

¹H and ³¹P¹H NMR

Cleavage of water-insoluble alkylallylcarbonates catalysed by a palladium/TPPTS/cyclodextrin system: effect of phosphine/cyclodextrin interactions on the reaction rate (Binkowski, C. (215) 23)

Halohydrin

A facile conversion of epoxides to halohydrins with elemental halogen using isonicotinic hydrazide (isoniazide) as a new catalyst (Sharghi, H. (215) 55)

N-Heterocyclic carbene

Synthesis of novel rhodium–carbene complexes as efficient catalysts for addition of phenylboronic acid to aldehydes (Özdemir, I. (215) 45) Heterogeneous catalysis

Reforming of *n*-hexane in presence of [1,2-bis(salicylidene amino)phenylene]–zirconium complex chemically bound on modified silica gel support (Anisia, K.S. (215) 121) Heterogeneous catalysis

Structure-activity relationship between some novel silica supported palladium catalysts: a study of the Suzuki reaction (Paul, S. (215) 107)

n-Hexane

Reforming of *n*-hexane in presence of [1,2-bis(salicylidene amino)phenylene]–zirconium complex chemically bound on modified silica gel support (Anisia, K.S. (215) 121)

High silica zeolite

Hydrothermally synthesized high silica mordenite as an efficient catalyst in alkylation reaction under liquid phase condition (Samanta, S. (215) 169)

Hydroformylation of olefins

Re-evaluation of the mechanism of the stoichiometric hydroformylation of olefins with cobalt carbonyls as catalysts (Tannenbaum, R. (215) 33) Hydrogen peroxide

A view on the mechanism of metalloporphyrin degradation in hydrogen peroxide epoxidation reactions (Serra, A.C. (215) 17)

Hydrogen transfer activity

Effect of ZSM-5 on the aromatization performance in cracking catalyst (Liu, C. (215) 195)

Hydrogenation

Ruthenium(II)-assisted asymmetric hydrogen transfer reduction of acetophenone using chiral tridentate phosphorus-containing ligands derived from (1*R*, 2*R*)-1,2-diaminocyclohexane (Flores-López, C.Z. (215) 73)

Hydroquinones

Non-heme iron polyazadentate complexes as catalysts for oxidations by H_2O_2 : particular efficiency in aromatic hydroxylations and beneficial effects of a reducing agent (Balland, V. (215) 81)

Imidazolidinylidine

Synthesis of novel rhodium–carbene complexes as efficient catalysts for addition of phenylboronic acid to aldehydes (Özdemir, I. (215) 45) Indium triflate

Indium triflate: a reusable catalyst for expeditious chemoselective conversion of aldehydes to acylals (Ghosh, R. (215) 49)

Infrared

An FT-IR study of the adsorption and oxidation of N-containing compounds over Fe₂O₃/Al₂O₃ SCR catalysts (Ramis, G. (215) 161) Iron–alumina

An FT-IR study of the adsorption and oxidation of N-containing compounds over Fe_2O_3/Al_2O_3 SCR catalysts (Ramis, G. (215) 161)

Isonicotinic hydrazide (isoniazide) A facile conversion of epoxides to halohydrins with elemental halogen using isonicotinic hydrazide (isoniazide) as a new catalyst (Sharghi, H. (215) 55)

Kinetic studies

Functional phenoxazinone synthase models. Kinetic studies on the copper-catalyzed oxygenation of 2-aminophenol (Horváth, T. (215) 9)

Lewis and Brønsted sites

Theoretical estimation of acid–base properties of Lewis and Brønsted centres at the V-W-O catalyst surface: water molecule as the probe in DFT calculations (Góra, A. (215) 187)

Lighter olefins

Effect of ZSM-5 on the aromatization performance in cracking catalyst (Liu, C. (215) 195)

Linear alkyl benzene

Hydrothermally synthesized high silica mordenite as an efficient catalyst in alkylation reaction under liquid phase condition (Samanta, S. (215) 169)

Metalloporphyrin

A view on the mechanism of metalloporphyrin degradation in hydrogen peroxide epoxidation reactions (Serra, A.C. (215) 17)

Modified silica gel support

Reforming of *n*-hexane in presence of [1,2-bis(salicylidene amino)phenylene]–zirconium complex chemically bound on modified silica gel support (Anisia, K.S. (215) 121)

Molecular building block

Molecular building block approaches to chiral porous zirconium phosphonates for asymmetric catalysis (Ngo, H.L. (215) 177)

Molecular recognition

Cleavage of water-insoluble alkylallylcarbonates catalysed by a palladium/TPPTS/cyclodextrin system: effect of phosphine/cyclodextrin interactions on the reaction rate (Binkowski, C. (215) 23)

Monooxygenation

Non-heme iron polyazadentate complexes as catalysts for oxidations by H_2O_2 : particular efficiency in aromatic hydroxylations and beneficial effects of a reducing agent (Balland, V. (215) 81)

Mordenite

Hydrothermally synthesized high silica mordenite as an efficient catalyst in alkylation reaction under liquid phase condition (Samanta, S. (215) 169)

NO_x

An FT-IR study of the adsorption and oxidation of N-containing compounds over Fe_2O_3/Al_2O_3 SCR catalysts (Ramis, G. (215) 161)

Oxidation of benzyl alcohol to benzaldehyde

Solvent-free oxidation of benzyl alcohol to benzaldehyde by *tert*-butyl hydroperoxide using transition metal containing layered double hydroxides and/or mixed hydroxides (Choudhary, V.R. (215) 129)

Oxidation

Simplified single-step synthetic route for the preparation of a highly active gold-based catalyst for CO oxidation (Mallick, K. (215) 103) Oxygenation

Functional phenoxazinone synthase models. Kinetic studies on the copper-catalyzed oxygenation of 2-aminophenol (Horváth, T. (215) 9)

Palladium catalyst

Carbon monoxide–ethylene copolymerisation catalysed by [PdCl₂(dppp)] in methanol–water or in acetic acid–water as solvents (dppp = 1,3-bis(diphenylphosphine)propane) (Vavasori, A. (215) 63) Palladium

Cleavage of water-insoluble alkylallylcarbonates catalysed by a palladium/TPPTS/cyclodextrin system: effect of phosphine/cyclodextrin interactions on the reaction rate (Binkowski, C. (215) 23)

Palladium

Palladium-catalyzed asymmetric arylation of 2,3-dihydrofuran with aryl triflates in water in the presence of surfactants (Rabeyrin, C. (215) 89)

Palladium-on-charcoal

Heteroaromatic benzyl ethers as intermediates for palladium-catalysed transfer hydrogenolysis of benzyl alcohols (Araújo, N.C.P. (215) 113) Phenoxazinone

Functional phenoxazinone synthase models. Kinetic studies on the copper-catalyzed oxygenation of 2-aminophenol (Horváth, T. (215) 9) Photocatalysis

Gas-phase ethanol photocatalytic degradation study with TiO_2 doped with Fe, Pd and Cu (Araña, J. (215) 153)

Photocatalysis

Preparation and photocatalytic properties of Zr^{4+} -doped TiO₂ nanocrystals (Wang, Y.M. (215) 137)

Polyketones

Carbon monoxide–ethylene copolymerisation catalysed by $[PdCl_2(dppp)]$ in methanol–water or in acetic acid–water as solvents (dppp = 1,3-bis(diphenylphosphine)propane) (Vavasori, A. (215) 63) Polypyridinic ligands

Non-heme iron polyazadentate complexes as catalysts for oxidations by H_2O_2 : particular efficiency in aromatic hydroxylations and beneficial effects of a reducing agent (Balland, V. (215) 81)

Rare earth cation

Acylation of toluene using rare earth cation exchanged zeolite β as solid acid catalyst (Sheemol, V.N. (215) 201)

Reduction

Simplified single-step synthetic route for the preparation of a highly active gold-based catalyst for CO oxidation (Mallick, K. (215) 103) Rhodium complexes

Synthesis of novel rhodium–carbene complexes as efficient catalysts for addition of phenylboronic acid to aldehydes (Özdemir, I. (215) 45)

Ring opening

A facile conversion of epoxides to halohydrins with elemental halogen using isonicotinic hydrazide (isoniazide) as a new catalyst (Sharghi, H. (215) 55)

Ruthenium(II)

Ruthenium(II)-assisted asymmetric hydrogen transfer reduction of acetophenone using chiral tridentate phosphorus-containing ligands derived from (1*R*, 2*R*)-1,2-diaminocyclohexane (Flores-López, C.Z. (215) 73)

SAPO-5

Crystallization and characterization of high silica silicoaluminophosphate SAPO-5 (Seelan, S. (215) 149)

Schiff base

Ruthenium(II)-assisted asymmetric hydrogen transfer reduction of acetophenone using chiral tridentate phosphorus-containing ligands derived from (1*R*, 2*R*)-1,2-diaminocyclohexane (Flores-López, C.Z. (215) 73)

SCR

An FT-IR study of the adsorption and oxidation of N-containing compounds over Fe₂O₃/Al₂O₃ SCR catalysts (Ramis, G. (215) 161) Silica supported palladium catalysts

Structure-activity relationship between some novel silica supported palladium catalysts: a study of the Suzuki reaction (Paul, S. (215) 107) Silicoaluminophosphate

Crystallization and characterization of high silica silicoaluminophosphate SAPO-5 (Seelan, S. (215) 149)

Sol-gel

Preparation and photocatalytic properties of Zr^{4+} -doped TiO₂ nanocrystals (Wang, Y.M. (215) 137)

Solvent-free oxidation of benzyl alcohol

Solvent-free oxidation of benzyl alcohol to benzaldehyde by *tert*-butyl hydroperoxide using transition metal containing layered double hydroxides and/or mixed hydroxides (Choudhary, V.R. (215) 129)

Structure-activity relationship

Structure-activity relationship between some novel silica supported palladium catalysts: a study of the Suzuki reaction (Paul, S. (215) 107) Suzuki coupling

Structure-activity relationship between some novel silica supported palladium catalysts: a study of the Suzuki reaction (Paul, S. (215) 107)

Tetrahydropterins

Non-heme iron polyazadentate complexes as catalysts for oxidations by H_2O_2 : particular efficiency in aromatic hydroxylations and beneficial effects of a reducing agent (Balland, V. (215) 81)

Tetrazoles

Heteroaromatic benzyl ethers as intermediates for palladium-catalysed transfer hydrogenolysis of benzyl alcohols (Araújo, N.C.P. (215) 113) TiO2 doped

Gas-phase ethanol photocatalytic degradation study with TiO_2 doped with Fe, Pd and Cu (Araña, J. (215) 153)

 TiO_2

Preparation and photocatalytic properties of Zr⁴⁺-doped TiO₂ nanocrystals (Wang, Y.M. (215) 137)

Titania

Simplified single-step synthetic route for the preparation of a highly active gold-based catalyst for CO oxidation (Mallick, K. (215) 103)

Toluene

Acylation of toluene using rare earth cation exchanged zeolite β as solid acid catalyst (Sheemol, V.N. (215) 201)

Transfer hydrogenolysis

Heteroaromatic benzyl ethers as intermediates for palladium-catalysed transfer hydrogenolysis of benzyl alcohols (Araújo, N.C.P. (215) 113) Transfer

Ruthenium(II)-assisted asymmetric hydrogen transfer reduction of acetophenone using chiral tridentate phosphorus-containing ligands derived from (1*R*, 2*R*)-1,2-diaminocyclohexane (Flores-López, C.Z. (215) 73)

Transition metal containing hydrotalcite-like catalysts

Solvent-free oxidation of benzyl alcohol to benzaldehyde by *tert*-butyl hydroperoxide using transition metal containing layered double hydroxides and/or mixed hydroxides (Choudhary, V.R. (215) 129)

V-W-O catalyst surface

Theoretical estimation of acid–base properties of Lewis and Brønsted centres at the V-W-O catalyst surface: water molecule as the probe in DFT calculations (Góra, A. (215) 187)

Water

Carbon monoxide–ethylene copolymerisation catalysed by $[PdCl_2(dppp)]$ in methanol–water or in acetic acid–water as solvents (dppp = 1,3-bis(diphenylphosphine)propane) (Vavasori, A. (215) 63)

Water-soluble phosphines

Cleavage of water-insoluble alkylallylcarbonates catalysed by a palladium/TPPTS/cyclodextrin system: effect of phosphine/cyclodextrin interactions on the reaction rate (Binkowski, C. (215) 23)

X-ray photoelectron spectroscopy

Structure-activity relationship between some novel silica supported palladium catalysts: a study of the Suzuki reaction (Paul, S. (215) 107)

Zeolite β

Acylation of toluene using rare earth cation exchanged zeolite β as solid acid catalyst (Sheemol, V.N. (215) 201)

Zirconic doped

Preparation and photocatalytic properties of Zr^{4+} -doped TiO₂ nanocrystals (Wang, Y.M. (215) 137)

Zirconium complex

Reforming of *n*-hexane in presence of [1,2-bis(salicylidene amino)phenylene]–zirconium complex chemically bound on modified silica gel support (Anisia, K.S. (215) 121)

Zirconium phosphonates

Molecular building block approaches to chiral porous zirconium phosphonates for asymmetric catalysis (Ngo, H.L. (215) 177)

ZSM-5

Effect of ZSM-5 on the aromatization performance in cracking catalyst (Liu, C. (215) 195)