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# Subject index

#### Acetone

Ultrasonic preparation of mesoporous titanium dioxide nanocrystalline photocatalysts and evaluation of photocatalytic activity (Yu, J. (227) 75)

### Acetone transformation

Characterization of bifunctional Pt/H[Ga]ZSM5 and Pt/H[Al]ZSM5 catalysts. II. Evidences of a Pt-Ga interaction (Diaz, Y. (227) 7)

#### Acetonitrile

Oxidations by the reagent " $O_2$ – $H_2O_2$ –vanadium derivative–pyrazine-2-carboxylic acid". Part 14. Competitive oxidation of alkanes and acetonitrile (solvent) (Kozlov, Y.N. (227) 247)

#### Acetylation

Surface characterization and catalytic activity of sulfate-, molybdateand tungstate-promoted Al<sub>2</sub>O<sub>3</sub>–ZrO<sub>2</sub> solid acid catalysts (Reddy, B.M. (227) 81)

### Acidity and basicity

Surface properties and CO adsorption on zirconia polymorphs (Ma, Z.-Y. (227) 119)

#### Acrolein

Structure and properties of BiCeVMoO mixed metal oxides catalysts for selective oxidation of propane (Yang, H. (227) 279)

### Alcoho

Facile preparation of symmetrical and unsymmetrical ethers from their corresponding alcohols catalyzed by aluminumdodecatangstophosphate (AlPW $_{12}O_{40}$ ), as a versatile and a highly water tolerant Lewis acid (Firouzabadi, H. (227) 97)

### Alkanes

Oxidations by the reagent "O<sub>2</sub>-H<sub>2</sub>O<sub>2</sub>-vanadium derivative-pyrazine-2-carboxylic acid". Part 14. Competitive oxidation of alkanes and acetonitrile (solvent) (Kozlov, Y.N. (227) 247)

### Alkyl hydroperoxides

Oxidations by the reagent "O<sub>2</sub>-H<sub>2</sub>O<sub>2</sub>-vanadium derivative-pyrazine-2-carboxylic acid". Part 14. Competitive oxidation of alkanes and acetonitrile (solvent) (Kozlov, Y.N. (227) 247)

### AlPW<sub>12</sub>O<sub>4</sub>

Facile preparation of symmetrical and unsymmetrical ethers from their corresponding alcohols catalyzed by aluminumdodecatangstophosphate (AlPW $_{12}O_{40}$ ), as a versatile and a highly water tolerant Lewis acid (Firouzabadi, H. (227) 97)

### Alumina

Epoxidation of styrene by anhydrous hydrogen peroxide over boehmite and alumina catalysts with continuous removal of the reaction water (Choudhary, V.R. (227) 217)

### Alumina-zirconia

Surface characterization and catalytic activity of sulfate-, molybdateand tungstate-promoted  $Al_2O_3$ – $ZrO_2$  solid acid catalysts (Reddy, B.M. (227) 81)

## Aluminumdodecatangstophosphate

Facile preparation of symmetrical and unsymmetrical ethers from their corresponding alcohols catalyzed by aluminumdodecatangstophosphate (AlPW $_{12}O_{40}$ ), as a versatile and a highly water tolerant Lewis acid (Firouzabadi, H. (227) 97)

### Anhydrous hydrogen peroxide

Epoxidation of styrene by anhydrous hydrogen peroxide over boehmite and alumina catalysts with continuous removal of the reaction water (Choudhary, V.R. (227) 217)

### Aq. H<sub>2</sub>O<sub>2</sub>

Oxidation of norbornene over vanadium-substituted phosphomolybdic acid catalysts and spectroscopic investigations (Raj, N.K.K. (227) 37)

#### Arene carbonylation

Arene carbonylation in acidic, chloroaluminate ionic liquids (Angueira, E.J. (227) 51)

### Asphaltene

Theoretical study of catalytic steam cracking on a asphaltene model molecule (Machín, I. (227) 223)

### Asymmetric

Salen ligands derived from *trans*-1,2-dimethyl-1,2-cyclohexanediamine: preparation and application in oxo-chromium salen mediated asymmetric epoxidation of alkenes (Kerrigan, N.J. (227) 163)

### Autoxidation catalysis

Liquid-phase ethylbenzene oxidation to hydroperoxide with barium catalysts (Toribio, P.P. (227) 101)

### Barium compounds

Liquid-phase ethylbenzene oxidation to hydroperoxide with barium catalysts (Toribio, P.P. (227) 101)

## BiCeVMoO composite oxides catalyst

Structure and properties of BiCeVMoO mixed metal oxides catalysts for selective oxidation of propane (Yang, H. (227) 279)

# Biodiesel

New multi-phase catalytic systems based on tin compounds active for vegetable oil transesterification reaction (Abreu, F.R. (227) 263)

### Boehmite

Epoxidation of styrene by anhydrous hydrogen peroxide over boehmite and alumina catalysts with continuous removal of the reaction water (Choudhary, V.R. (227) 217)

### Brønsted acidity

Arene carbonylation in acidic, chloroaluminate ionic liquids (Angueira, E.J. (227) 51)

### N-bromosuccinimide

An efficient cobalt (II) catalyzed oxidation of secondary alcohols to carbonyl compounds with *N*-bromosuccinimide (Sharma, V.B. (227) 47)

# Carbonaceous deposit

Catalytic reduction of  $N_2O$  by various hydrocarbons over Fe-ZSM-5: nature and reactivity of carbonaceous deposits (Chaki, T. (227) 187)

### Carboxylic acid

Ketonization of carboxylic acids over  $CeO_2$ -based composite oxides (Nagashima, O. (227) 231)

### Catalysis

Synthesis of monomeric and dendritic ruthenium benzylidene *cis*-bistertiobutyl phosphine complexes that catalyze the ROMP of norbornene under ambient conditions (Méry, D. (227) 1)

### Catalysis

Hydro-dimerization of  $Pt_2Cl_2(C_2H_4)_2$ : model reaction to capture details on catalytic mechanisms (227) 173)

### Catalyst

New bi-nuclear and multi-nuclear α-diimine/nickel catalysts for ethylene polymerization (Luo, H.-K. (227) 153)

### Catalyst characterization

Characterization of bifunctional Pt/H[Ga]ZSM5 and Pt/H[Al]ZSM5 catalysts. II. Evidences of a Pt-Ga interaction (Diaz, Y. (227) 7)

Ketonization of carboxylic acids over CeO2-based composite oxides (Nagashima, O. (227) 231)

#### C-H insertion

Preparation of enantioselective enriched α-(dialkoxyphosphoryl)lactams via intramolecular C-H insertion with chiral dirhodium(II) catalysts (Gois, P.P.M. (227) 17)

### Chloroaluminate ionic liquids

Arene carbonylation in acidic, chloroaluminate ionic liquids (Angueira, E.J. (227) 51)

### Chlorobenzene

Hydrodechlorination of polychlorobenzenes and polychlorinated aliphatic compounds under mild conditions by Pd and Rh ions or their complexes intercalated in γ-zirconium phosphate (Giannoccaro, P. (227) 133)

### 2-Chlorophenol

Hydrogen peroxide oxidation of 2-chlorophenol and 2,4,5-trichlorophenol catalyzed by monomeric and aggregated cobalt tetrasulfophthalocyanine (Agboola, B. (227) 209)

### Chromium

Salen ligands derived from trans-1,2-dimethyl-1,2-cyclohexanediamine: preparation and application in oxo-chromium salen mediated asymmetric epoxidation of alkenes (Kerrigan, N.J. (227) 163)

### Clean fuels

Significance of pH measurements in photocatalytic splitting of water using 355 nm UV laser (Hameed, A. (227) 241)

### CO adsorption

Surface properties and CO adsorption on zirconia polymorphs (Ma, Z.-Y. (227) 119)

### Cobalt

An efficient cobalt (II) catalyzed oxidation of secondary alcohols to carbonyl compounds with N-bromosuccinimide (Sharma, V.B. (227) 47)

### Cobalt tetrasulfophthalocyanine

Hydrogen peroxide oxidation of 2-chlorophenol and 2,4,5-trichlorophenol catalyzed by monomeric and aggregated cobalt tetrasulfophthalocyanine (Agboola, B. (227) 209)

# Convergent method

Synthesis of triphenylphosphine-functionalized dendrimers and application to olefin hydroformylation (Huang, Y.-Y. (227) 91)

### Copper chloride hydroxides (Cu(OH)Cl)

Effect of crystal structure of copper species on the rate and selectivity in oxidative carbonylation of ethanol for diethyl carbonate synthesis (Zhang, Z. (227) 141)

### Copper-incorporation

Effects of the enhancement of the abstraction of lattice oxygen from magnesium vanadates incorporated with copper(II) cations on the oxidative dehydrogenation of propane (Sugiyama, S. (227) 255)

## Cumene and acetophenone

Co and Mn impregnated MCM-41: their applications to vapour phase oxidation of isopropylbenzene (Vetrivel, S. (227) 269)

# Cyanotrimethylsilyl ethers

The cyanosilylation of prochiral aldehydes catalyzed by lanthanide complexes (Mei, L. (227) 183)

### Cyclocarbonylation reaction

PAMAM dendrimer-palladium complex catalyzed synthesis of five-, six- or seven membered ring lactones and lactams by cyclocarbonylation methodology (Touzani, R. (227) 197)

### Cyclohexane

Oxidations by the reagent "O2-H2O2-vanadium derivative-pyrazine-2carboxylic acid". Part 14. Competitive oxidation of alkanes and acetonitrile (solvent) (Kozlov, Y.N. (227) 247)

### Dendrimer

Synthesis of triphenylphosphine-functionalized dendrimers and application to olefin hydroformylation (Huang, Y.-Y. (227) 91)

### Dendrimers

Synthesis of monomeric and dendritic ruthenium benzylidene cis-bistertiobutyl phosphine complexes that catalyze the ROMP of norbornene under ambient conditions (Méry, D. (227) 1)

### Dendritic catalyst

Synthesis of triphenylphosphine-functionalized dendrimers and application to olefin hydroformylation (Huang, Y.-Y. (227) 91)

### Density functional theory

Hydro-dimerization of Pt<sub>2</sub>Cl<sub>2</sub>(C<sub>2</sub>H<sub>4</sub>)<sub>2</sub>: model reaction to capture details on catalytic mechanisms (227) 173)

### Diazo compounds

Preparation of enantioselective enriched α-(dialkoxyphosphoryl)lactams via intramolecular C-H insertion with chiral dirhodium(II) catalysts (Gois, P.P.M. (227) 17)

### Diethyl carbonate (DEC)

Effect of crystal structure of copper species on the rate and selectivity in oxidative carbonylation of ethanol for diethyl carbonate synthesis (Zhang, Z. (227) 141)

#### α-Diimine

New bi-nuclear and multi-nuclear α-diimine/nickel catalysts for ethylene polymerization (Luo, H.-K. (227) 153)

# Diphosphines

Synthesis of monomeric and dendritic ruthenium benzylidene cis-bistertiobutyl phosphine complexes that catalyze the ROMP of norbornene under ambient conditions (Méry, D. (227) 1)

#### DRS-UV

Co and Mn impregnated MCM-41: their applications to vapour phase oxidation of isopropylbenzene (Vetrivel, S. (227) 269)

# Electrocatalysis

Selective electrochemical oxidation of methanol to dimethoxymethane using Ru/Sn catalysts (Anthony, C.R. (227) 113)

### **Epoxidation**

Oxidation of norbornene over vanadium-substituted phosphomolybdic acid catalysts and spectroscopic investigations (Raj, N.K.K. (227) 37) Salen ligands derived from trans-1,2-dimethyl-1,2-cyclohexanediamine: preparation and application in oxo-chromium salen mediated asymmetric epoxidation of alkenes (Kerrigan, N.J. (227) 163)

# Epoxidation of styrene

Epoxidation of styrene by anhydrous hydrogen peroxide over boehmite and alumina catalysts with continuous removal of the reaction water (Choudhary, V.R. (227) 217)

# 2,3-Epoxy norbornane

Oxidation of norbornene over vanadium-substituted phosphomolybdic acid catalysts and spectroscopic investigations (Raj, N.K.K. (227) 37)

Oxidation of norbornene over vanadium-substituted phosphomolybdic acid catalysts and spectroscopic investigations (Raj, N.K.K. (227) 37) ESR

Co and Mn impregnated MCM-41: their applications to vapour phase oxidation of isopropylbenzene (Vetrivel, S. (227) 269)

# Ethene hydrogenation

Hydro-dimerization of Pt<sub>2</sub>Cl<sub>2</sub>(C<sub>2</sub>H<sub>4</sub>)<sub>2</sub>: model reaction to capture details on catalytic mechanisms (227) 173)

### Ethylbenzene

Liquid-phase ethylbenzene oxidation to hydroperoxide with barium catalysts (Toribio, P.P. (227) 101)

# Ethylbenzene hydroperoxide

Liquid-phase ethylbenzene oxidation to hydroperoxide with barium catalysts (Toribio, P.P. (227) 101)

New bi-nuclear and multi-nuclear α-diimine/nickel catalysts for ethylene polymerization (Luo, H.-K. (227) 153)

### Fe-ZSM-5

Catalytic reduction of N<sub>2</sub>O by various hydrocarbons over Fe-ZSM-5: nature and reactivity of carbonaceous deposits (Chaki, T. (227) 187)

#### Fluorine

Propylene polymerization of *ansa*-complexes  $(R^XPh)_2C(Cp)(Flu)MCl_2$  (M = Zr or Hf) with halogen substituents on phenyl groups (Huang, J. (227) 147)

### Formaldehyde

Ultrasonic preparation of mesoporous titanium dioxide nanocrystalline photocatalysts and evaluation of photocatalytic activity (Yu, J. (227) 75)

### Hafnocene complexes

Propylene polymerization of *ansa*-complexes  $(R^XPh)_2C(Cp)(Flu)MCl_2$  (M = Zr or Hf) with halogen substituents on phenyl groups (Huang, J. (227) 147)

### Heck arylation

Synthesis of silica-supported poly-ω-(methylseleno)undecylsiloxane palladium(0) complex and its catalytic properties for Heck arylation of alkenes (Cai, M. (227) 107)

# Heterogeneous catalysis

Hydrodechlorination of polychlorobenzenes and polychlorinated aliphatic compounds under mild conditions by Pd and Rh ions or their complexes intercalated in  $\gamma$ -zirconium phosphate (Giannoccaro, P. (227) 133)

### Homogeneous catalysis

Oxidations by the reagent "O<sub>2</sub>-H<sub>2</sub>O<sub>2</sub>-vanadium derivative-pyrazine-2-carboxylic acid". Part 14. Competitive oxidation of alkanes and acetonitrile (solvent) (Kozlov, Y.N. (227) 247)

### Hydrocarbon

Catalytic reduction of N<sub>2</sub>O by various hydrocarbons over Fe-ZSM-5: nature and reactivity of carbonaceous deposits (Chaki, T. (227) 187)

### Hydrodechlorination

Hydrodechlorination of polychlorobenzenes and polychlorinated aliphatic compounds under mild conditions by Pd and Rh ions or their complexes intercalated in  $\gamma$ -zirconium phosphate (Giannoccaro, P. (227) 133)

# Hydroformylation

Synthesis of triphenylphosphine-functionalized dendrimers and application to olefin hydroformylation (Huang, Y.-Y. (227) 91)

### Hydrogen

Significance of pH measurements in photocatalytic splitting of water using 355 nm UV laser (Hameed, A. (227) 241)

### Hydrogen peroxide

Hydrogen peroxide oxidation of 2-chlorophenol and 2,4,5-trichlorophenol catalyzed by monomeric and aggregated cobalt tetrasulfophthalocyanine (Agboola, B. (227) 209)

# Hydrogenation

Diastereoselective hydrogenation of a cyclic  $\beta$ -ketoformyl derivative on supported metal catalysts (Malacea, R. (227) 125)

# Ionic liquids

New multi-phase catalytic systems based on tin compounds active for vegetable oil transesterification reaction (Abreu, F.R. (227) 263)

### Ketones

An efficient cobalt (II) catalyzed oxidation of secondary alcohols to carbonyl compounds with *N*-bromosuccinimide (Sharma, V.B. (227) 47)

Ketonization of carboxylic acids over  $CeO_2$ -based composite oxides (Nagashima, O. (227) 231)

# Kinetics

Hydro-dimerization of Pt2Cl2(C2H4)2: model reaction to capture details on catalytic mechanisms (Duca, D. (227) 173)

### Lactams

Preparation of enantioselective enriched  $\alpha$ -(dialkoxyphosphoryl)lactams via intramolecular C–H insertion with chiral dirhodium(II) catalysts (Gois, P.P.M. (227) 17)

### Laser applications

Significance of pH measurements in photocatalytic splitting of water using 355 nm UV laser (Hameed, A. (227) 241)

#### Lasers

Significance of pH measurements in photocatalytic splitting of water using 355 nm UV laser (Hameed, A. (227) 241)

#### Lattice oxygen

Effects of the enhancement of the abstraction of lattice oxygen from magnesium vanadates incorporated with copper(II) cations on the oxidative dehydrogenation of propane (Sugiyama, S. (227) 255)

#### Lewis acid

Facile preparation of symmetrical and unsymmetrical ethers from their corresponding alcohols catalyzed by aluminumdodecatangstophosphate (AlPW $_{12}O_{40}$ ), as a versatile and a highly water tolerant Lewis acid (Firouzabadi, H. (227) 97)

### Lewis acidic catalysts

The cyanosilylation of prochiral aldehydes catalyzed by lanthanide complexes (Mei, L. (227) 183)

### Magnesium vanadates

Effects of the enhancement of the abstraction of lattice oxygen from magnesium vanadates incorporated with copper(II) cations on the oxidative dehydrogenation of propane (Sugiyama, S. (227) 255)

#### MCM-4

Co and Mn impregnated MCM-41: their applications to vapour phase oxidation of isopropylbenzene (Vetrivel, S. (227) 269)

### Mesoporous

Ultrasonic preparation of mesoporous titanium dioxide nanocrystalline photocatalysts and evaluation of photocatalytic activity (Yu, J. (227) 75)

#### Metathesis

Synthesis of monomeric and dendritic ruthenium benzylidene *cis*-bistertiobutyl phosphine complexes that catalyze the ROMP of norbornene under ambient conditions (Méry, D. (227) 1)

#### Methane

Oxidations by the reagent "O<sub>2</sub>-H<sub>2</sub>O<sub>2</sub>-vanadium derivative-pyrazine-2-carboxylic acid". Part 14. Competitive oxidation of alkanes and acetonitrile (solvent) (Kozlov, Y.N. (227) 247)

# Methanol oxidation

Selective electrochemical oxidation of methanol to dimethoxymethane using Ru/Sn catalysts (Anthony, C.R. (227) 113)

### Mn<sub>2</sub>O<sub>3</sub>

Ketonization of carboxylic acids over CeO<sub>2</sub>-based composite oxides (Nagashima, O. (227) 231)

## Molybdenum

Preparation and catalytic studies of bis(halogeno)dioxomolybdenum(VI)-diimine complexes (Petrovski, Ž. (227) 67)

### Molybdenum oxide

Surface characterization and catalytic activity of sulfate-, molybdateand tungstate-promoted  $Al_2O_3$ – $ZrO_2$  solid acid catalysts (Reddy, B.M. (227) 81)

# Multi-phase transesterification

New multi-phase catalytic systems based on tin compounds active for vegetable oil transesterification reaction (Abreu, F.R. (227) 263)

# Nanocrystalline

Ultrasonic preparation of mesoporous titanium dioxide nanocrystalline photocatalysts and evaluation of photocatalytic activity (Yu, J. (227) 75)

### Nanoparticles

Catalytic reduction of NO<sub>2</sub> in nanocrystalline NaY zeolite (Li, G. (227) 25)

### Nicke

New bi-nuclear and multi-nuclear  $\alpha$ -diimine/nickel catalysts for ethylene polymerization (Luo, H.-K. (227) 153)

# Nickel catalyst

Theoretical study of catalytic steam cracking on a asphaltene model molecule (Machín, I. (227) 223)

### NiO

Significance of pH measurements in photocatalytic splitting of water using 355 nm UV laser (Hameed, A. (227) 241)

### Nitrogen ligands

Preparation and catalytic studies of bis(halogeno)dioxomolybdenum(VI)-diimine complexes (Petrovski, Ž. (227) 67)

#### NMR

Oxidation of norbornene over vanadium-substituted phosphomolybdic acid catalysts and spectroscopic investigations (Raj, N.K.K. (227) 37)

Catalytic reduction of NO<sub>2</sub> in nanocrystalline NaY zeolite (Li, G. (227) 25)

### N<sub>2</sub>O reduction

Catalytic reduction of  $N_2O$  by various hydrocarbons over Fe-ZSM-5: nature and reactivity of carbonaceous deposits (Chaki, T. (227) 187)

#### Norbornene

Oxidation of norbornene over vanadium-substituted phosphomolybdic acid catalysts and spectroscopic investigations (Raj, N.K.K. (227) 37)

#### Olefin epoxidation

Preparation and catalytic studies of bis(halogeno)dioxomolybdenum(VI)-diimine complexes (Petrovski, Ž. (227) 67)

#### Oxidation

An efficient cobalt (II) catalyzed oxidation of secondary alcohols to carbonyl compounds with *N*-bromosuccinimide (Sharma, V.B. (227) 47) Co and Mn impregnated MCM-41: their applications to vapour phase oxidation of isopropylbenzene (Vetrivel, S. (227) 269)

Oxidations by the reagent " $O_2$ - $H_2O_2$ -vanadium derivative-pyrazine-2-carboxylic acid". Part 14. Competitive oxidation of alkanes and acetonitrile (solvent) (Kozlov, Y.N. (227) 247)

### Oxidative carbonylation of ethanol

Effect of crystal structure of copper species on the rate and selectivity in oxidative carbonylation of ethanol for diethyl carbonate synthesis (Zhang, Z. (227) 141)

### Oxidative dehydrogenation of propane

Effects of the enhancement of the abstraction of lattice oxygen from magnesium vanadates incorporated with copper(II) cations on the oxidative dehydrogenation of propane (Sugiyama, S. (227) 255)

### Oxide complexes

Preparation and catalytic studies of bis(halogeno)dioxomolybdenum(VI)-diimine complexes (Petrovski, Ž. (227) 67)

# Oxygen

Significance of pH measurements in photocatalytic splitting of water using  $355\,\mathrm{nm}$  UV laser (Hameed, A. (227) 241)

# PAMAM palladium dendrimer

PAMAM dendrimer-palladium complex catalyzed synthesis of five-, six- or seven membered ring lactones and lactams by cyclocarbonylation methodology (Touzani, R. (227) 197)

### Parametric method

Theoretical study of catalytic steam cracking on a asphaltene model molecule (Machín, I. (227) 223)

# Paratacamite

Effect of crystal structure of copper species on the rate and selectivity in oxidative carbonylation of ethanol for diethyl carbonate synthesis (Zhang, Z. (227) 141)

# pH measurements

Significance of pH measurements in photocatalytic splitting of water using 355 nm UV laser (Hameed, A. (227) 241)

# Phosphonates

Preparation of enantioselective enriched  $\alpha$ -(dialkoxyphosphoryl)lactams via intramolecular C–H insertion with chiral dirhodium(II) catalysts (Gois, P.P.M. (227) 17)

### Photocatalysis

Significance of pH measurements in photocatalytic splitting of water using 355 nm UV laser (Hameed, A. (227) 241)

### Photocatalytic degradation

Ultrasonic preparation of mesoporous titanium dioxide nanocrystalline photocatalysts and evaluation of photocatalytic activity (Yu, J. (227) 75)

### Platinum

Diastereoselective hydrogenation of a cyclic  $\beta$ -ketoformyl derivative on supported metal catalysts (Malacea, R. (227) 125)

### Polychlorinated compounds

Hydrodechlorination of polychlorobenzenes and polychlorinated aliphatic compounds under mild conditions by Pd and Rh ions or their complexes intercalated in  $\gamma$ -zirconium phosphate (Giannoccaro, P. (227) 133)

### Polyethylene

New bi-nuclear and multi-nuclear α-diimine/nickel catalysts for ethylene polymerization (Luo, H.-K. (227) 153)

#### Polymerization

Synthesis of monomeric and dendritic ruthenium benzylidene *cis*-bistertiobutyl phosphine complexes that catalyze the ROMP of norbornene under ambient conditions (Méry, D. (227) 1)

### Propane

Structure and properties of BiCeVMoO mixed metal oxides catalysts for selective oxidation of propane (Yang, H. (227) 279)

# Propylene

Catalytic reduction of NO<sub>2</sub> in nanocrystalline NaY zeolite (Li, G. (227) 25)

### Propylene polymerization

Propylene polymerization of *ansa*-complexes  $(R^XPh)_2C(Cp)(Flu)MCl_2$  (M = Zr or Hf) with halogen substituents on phenyl groups (Huang, J. (227) 147)

### Pt/H[Ga]MFI

Characterization of bifunctional Pt/H[Ga]ZSM5 and Pt/H[Al]ZSM5 catalysts. II. Evidences of a Pt-Ga interaction (Diaz, Y. (227) 7)

#### Pt-Ga interaction

Characterization of bifunctional Pt/H[Ga]ZSM5 and Pt/H[Al]ZSM5 catalysts. II. Evidences of a Pt–Ga interaction (Diaz, Y. (227) 7)

### Redox

Effects of the enhancement of the abstraction of lattice oxygen from magnesium vanadates incorporated with copper(II) cations on the oxidative dehydrogenation of propane (Sugiyama, S. (227) 255)

### Reusable catalyst

Facile preparation of symmetrical and unsymmetrical ethers from their corresponding alcohols catalyzed by aluminumdodecatangstophosphate (AlPW $_{12}O_{40}$ ), as a versatile and a highly water tolerant Lewis acid (Firouzabadi, H. (227) 97)

### Rhodium catalysts

Preparation of enantioselective enriched  $\alpha$ -(dialkoxyphosphoryl)lactams via intramolecular C–H insertion with chiral dirhodium(II) catalysts (Gois, P.P.M. (227) 17)

# Ru catalysts

Selective electrochemical oxidation of methanol to dimethoxymethane using Ru/Sn catalysts (Anthony, C.R. (227) 113)

# Ruthenium

Diastereoselective hydrogenation of a cyclic  $\beta$ -ketoformyl derivative on supported metal catalysts (Malacea, R. (227) 125)

Synthesis of monomeric and dendritic ruthenium benzylidene *cis*-bistertiobutyl phosphine complexes that catalyze the ROMP of norbornene under ambient conditions (Méry, D. (227) 1)

### Salen

Salen ligands derived from *trans*-1,2-dimethyl-1,2-cyclohexanediamine: preparation and application in oxo-chromium salen mediated asymmetric epoxidation of alkenes (Kerrigan, N.J. (227) 163)

### Secondary alcohol

An efficient cobalt (II) catalyzed oxidation of secondary alcohols to carbonyl compounds with *N*-bromosuccinimide (Sharma, V.B. (227) 47) Selective catalytic reduction

Catalytic reduction of NO<sub>2</sub> in nanocrystalline NaY zeolite (Li, G. (227) 25) Selective oxidation

Structure and properties of BiCeVMoO mixed metal oxides catalysts for selective oxidation of propane (Yang, H. (227) 279)

### Selenide palladium(0) complex

Synthesis of silica-supported poly-ω-(methylseleno)undecylsiloxane palladium(0) complex and its catalytic properties for Heck arylation of alkenes (Cai, M. (227) 107)

### Silica-immobilized catalysts

PAMAM dendrimer-palladium complex catalyzed synthesis of five-, six- or seven membered ring lactones and lactams by cyclocarbonylation methodology (Touzani, R. (227) 197)

### Silylene-bridged rare-earth complexes involving fluorenyl

The cyanosilylation of prochiral aldehydes catalyzed by lanthanide complexes (Mei, L. (227) 183)

#### Solid superacid

Surface characterization and catalytic activity of sulfate-, molybdate- and tungstate-promoted  $Al_2O_3$ – $ZrO_2$  solid acid catalysts (Reddy, B.M. (227) 81)

### Steam cracking

Theoretical study of catalytic steam cracking on a asphaltene model molecule (Machín, I. (227) 223)

### Stereoselective synthesis

Synthesis of silica-supported poly-ω-(methylseleno)undecylsiloxane palladium(0) complex and its catalytic properties for Heck arylation of alkenes (Cai, M. (227) 107)

#### Styrene oxide

Epoxidation of styrene by anhydrous hydrogen peroxide over boehmite and alumina catalysts with continuous removal of the reaction water (Choudhary, V.R. (227) 217)

#### Sulfate ior

Surface characterization and catalytic activity of sulfate-, molybdateand tungstate-promoted  $Al_2O_3$ – $ZrO_2$  solid acid catalysts (Reddy, B.M. (227) 81)

### Supported catalysts

Diastereoselective hydrogenation of a cyclic  $\beta$ -ketoformyl derivative on supported metal catalysts (Malacea, R. (227) 125)

# Supported palladium catalyst

Synthesis of silica-supported poly-ω-(methylseleno)undecylsiloxane palladium(0) complex and its catalytic properties for Heck arylation of alkenes (Cai, M. (227) 107)

# Surface hydroxyl

Surface properties and CO adsorption on zirconia polymorphs (Ma, Z.-Y. (227) 119)

### Symmetric and asymmetric ketones

Ketonization of carboxylic acids over CeO<sub>2</sub>-based composite oxides (Nagashima, O. (227) 231)

### Syndiotactic polypropylene

Propylene polymerization of ansa-complexes  $(R^XPh)_2C(Cp)(Flu)MCl_2$  (M = Zr or Hf) with halogen substituents on phenyl groups (Huang, J. (227) 147)

# TEM

Characterization of bifunctional Pt/H[Ga]ZSM5 and Pt/H[A1]ZSM5 catalysts. II. Evidences of a Pt–Ga interaction (Diaz, Y. (227) 7)

# Temperature-programmed desorption

Surface characterization and catalytic activity of sulfate-, molybdate- and tungstate-promoted  $Al_2O_3$ – $ZrO_2$  solid acid catalysts (Reddy, B.M. (227) 81)

### Tin compounds

New multi-phase catalytic systems based on tin compounds active for vegetable oil transesterification reaction (Abreu, F.R. (227) 263)

### TiO<sub>2</sub>

Significance of pH measurements in photocatalytic splitting of water using 355 nm UV laser (Hameed, A. (227) 241)

Ultrasonic preparation of mesoporous titanium dioxide nanocrystalline photocatalysts and evaluation of photocatalytic activity (Yu, J. (227) 75)

### Trans-1,2-dimethyl-1,2-cyclohexanediamine

Salen ligands derived from *trans*-1,2-dimethyl-1,2-cyclohexanediamine: preparation and application in oxo-chromium salen mediated asymmetric epoxidation of alkenes (Kerrigan, N.J. (227) 163)

# 2,4,5-Trichlorophenol

Hydrogen peroxide oxidation of 2-chlorophenol and 2,4,5-trichlorophenol catalyzed by monomeric and aggregated cobalt tetrasulfophthalocyanine (Agboola, B. (227) 209)

### Triphenylphosphine

Synthesis of triphenylphosphine-functionalized dendrimers and application to olefin hydroformylation (Huang, Y.-Y. (227) 91)

### Tungsten oxide

Surface characterization and catalytic activity of sulfate-, molybdateand tungstate-promoted Al<sub>2</sub>O<sub>3</sub>–ZrO<sub>2</sub> solid acid catalysts (Reddy, B.M. (227) 81)

### Ultrasonic-induced hydrolysis

Ultrasonic preparation of mesoporous titanium dioxide nanocrystalline photocatalysts and evaluation of photocatalytic activity (Yu, J. (227) 75)

### Urea-H2O2 adduct

Oxidation of norbornene over vanadium-substituted phosphomolybdic acid catalysts and spectroscopic investigations (Raj, N.K.K. (227) 37) V-vis

Oxidation of norbornene over vanadium-substituted phosphomolybdic acid catalysts and spectroscopic investigations (Raj, N.K.K. (227) 37) Vanadium complexes

Oxidations by the reagent "O<sub>2</sub>-H<sub>2</sub>O<sub>2</sub>-vanadium derivative-pyrazine-2-carboxylic acid". Part 14. Competitive oxidation of alkanes and acetonitrile (solvent) (Kozlov, Y.N. (227) 247)

### Vanadium-substituted phosphomolybdic acid

Oxidation of norbornene over vanadium-substituted phosphomolybdic acid catalysts and spectroscopic investigations (Raj, N.K.K. (227) 37) getable oils

New multi-phase catalytic systems based on tin compounds active for vegetable oil transesterification reaction (Abreu, F.R. (227) 263)

### Water splitting

Significance of pH measurements in photocatalytic splitting of water using 355 nm UV laser (Hameed, A. (227) 241)

### Water tolerant

Facile preparation of symmetrical and unsymmetrical ethers from their corresponding alcohols catalyzed by aluminumdodecatangstophosphate (AlPW $_{12}O_{40}$ ), as a versatile and a highly water tolerant Lewis acid (Firouzabadi, H. (227) 97)

## $WO_3$

Significance of pH measurements in photocatalytic splitting of water using 355 nm UV laser (Hameed, A. (227) 241)

# XPS

Characterization of bifunctional Pt/H[Ga]ZSM5 and Pt/H[Al]ZSM5 catalysts. II. Evidences of a Pt-Ga interaction (Diaz, Y. (227) 7)

# X-ray diffraction

Preparation and catalytic studies of bis(halogeno)dioxomolybdenum(VI)-diimine complexes (Petrovski, Ž. (227) 67)

Surface characterization and catalytic activity of sulfate-, molybdateand tungstate-promoted Al<sub>2</sub>O<sub>3</sub>–ZrO<sub>2</sub> solid acid catalysts (Reddy, B.M. (227) 81)

# X-ray photoelectron spectroscopy

Surface characterization and catalytic activity of sulfate-, molybdateand tungstate-promoted Al<sub>2</sub>O<sub>3</sub>–ZrO<sub>2</sub> solid acid catalysts (Reddy, B.M. (227) 81)

### Y zeolite

Catalytic reduction of NO<sub>2</sub> in nanocrystalline NaY zeolite (Li, G. (227) 25)

4)2: model reaction to capture details on catalytic mechanisms (Duca, D. (227) 173)

### Zeise derivatives

Hydro-dimerization of  $Pt_2Cl_2(C_2H_4)_2$ : model reaction to capture details on catalytic mechanisms (227) 173)

# Zirconium phosphates supports

Hydrodechlorination of polychlorobenzenes and polychlorinated aliphatic compounds under mild conditions by Pd and Rh ions or their complexes intercalated in  $\gamma$ -zirconium phosphate (Giannoccaro, P. (227) 133)

# Zirconocene complexes

Propylene polymerization of *ansa*-complexes  $(R^XPh)_2C(Cp)(Flu)MCl_2$  (M = Zr or Hf) with halogen substituents on phenyl groups (Huang, J. (227) 147)