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Synthesis of hydridoplatinum—molybdenum (or tungsten) heterodinuclear complexes by  $\beta$ -hydrogen elimination of (dppe)EtPt–MCp(CO) $_3$ . Selective hydride transfer from Pt to Mo (or W) (Komiya, S. (159) 63)

#### Platinum colloid

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#### Polydicyclopentadiene

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### Polvethylene

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### Polymer-anchored Ru(III) complex

Surface characterization and catalytic activity of polymeranchored Ru(III)-schiffbase complex (Dalal, M.K. (159) 285)

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Effect of temperature and additives on the reactivity and product selectivity of polymer-bound nickel(II) complex (Han, X. (159) 139)

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Use of the seven-coordinate complexes [MXY(CO)<sub>3</sub>(NCMe)<sub>2</sub>] (M = Mo or W; X, Y = halide) and their derivatives in homogeneous catalysis (Al-Jahdali, M. (159) 51)

#### Polymer-supported azo metal complex

Preparation and catalytic oxidation by polymer supported 4-(2-pyridylazo) rosorcinol-metal complexes (Wang, Y. (159) 31)

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A highly effective water-soluble polymer-supported catalyst for the two-phase asymmetric hydrogenation: preparation and use of a PEG-bound BINAP ligand (Fan, Q.-H. (159) 37)

#### Polymer-supported titanate

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#### Poly(p-hydroxystyrene) resins

Reactivity of some polymer-supported titanium catalysts in transesterification and epoxidation reactions (Deleuze, H. (159) 257)

## Polytrifluoromethanesulfosiloxane

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#### Porphyrins

Synthesis and photocatalytic oxidation properties of Co(II)-te-tra-[4-(*p*-toluene-sulfonyloxy) phenyl] porphyrin (An, T. (159) 143)

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Characterization of K-mixed  $V_2O_5$  catalyst and oxidative dehydrogenation of propane on it (Ono. T. (159) 293)

#### Propane selective oxidation

Selective oxidation of propane on a Nafion-based catalytic membrane mediated by  ${\rm Fe^{II}}{-}{\rm H_2O_2}$  Fenton system (Espro, C. (159) 359)

### Propionamide

Amidation of ethylene with carbon monoxide and ammonia over supported Ru catalysts (Zhao, S.-P. (159) 103)

### Propiononitrile

Amidation of ethylene with carbon monoxide and ammonia over supported Ru catalysts (Zhao, S.-P. (159) 103)

## Pyruvic acid

Oxidation by iron phosphate catalyst (Ai, M. (159) 19)

#### Ouercetinase

Kinetics and mechanism of the Cu(I) and Cu(II) flavonolatecatalyzed oxygenation of flavonol. Functional quercetin 2,3dioxygenase models (Balogh-Hergovich, É. (159) 215)

### R-(+)-1-cyclohexyl ethanol

Catalytic behaviors of silica-supported chitin–platinum complex for asymmetric hydrogenation of  $\alpha$ -phenylethanol (Yuan, G.-L. (159) 45)

## Reaction mechanism

The influence of the isomerization reactions on the soybean oil hydrogenation process (Jovanović, D. (159) 353)

## Reactivity

Competitive catalytic hydrogenation in systems of unsaturated hydrocarbons and nitrocompounds (Kačer, P. (159) 365)

#### Reactivity studies

Stability and reactivity of low-spin ferric hydroperoxo and alkylperoxo complexes with bipyridine and phenantroline ligands (Sobolev, A.P. (159) 233)

#### Recycling

Epoxidations of olefins catalysed by new Mn(II) salen immobilized mesoporous materials (Choudary, B.M. (159) 417)

#### Rhodium catalyst

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#### Ring opening metathesis polymerization

Macroligand effect of tungsten catalyst for ring opening metathesis polymerization of dicyclopentadiene (Wang, Z. (159) 121)

A new ROMP W-initiator as model for W-carbosilane dendrimers for the synthesis of starpolymers (Beerens, H. (159) 197)

#### Ru ammine complex

Amidation of ethylene with carbon monoxide and ammonia over supported Ru catalysts (Zhao, S.-P. (159) 103)

#### Ru(III)-schiffbase complex

Surface characterization and catalytic activity of polymeranchored Ru(III)-schiffbase complex (Dalal, M.K. (159) 285)

#### Ruthenium

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Homogeneous asymmetric hydrogenation of *o*-substituted acetophenones catalyzed by NH<sub>2</sub>Et<sub>2</sub>{Ru<sub>2</sub>Cl<sub>5</sub>[(*S*)-tol-BINAP]<sub>2</sub>} (Li. R.-X. (159) 179)

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### Schiff-base complexes

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#### Silica

A theoretical and experimental study of the possible phenytriethoxysilane species found on treated silica (Belelli, P.G. (159) 315)

## Silica-supported chitin-platinum complex

Catalytic behaviors of silica-supported chitin–platinum complex for asymmetric hydrogenation of  $\alpha$ -phenylethanol (Yuan, G.-L. (159) 45)

### Simple ketones

Cationic rhodium complexes with chiral tetradentate ligands as catalysts for enantioselective reduction of simple ketones (Gao, J.-X. (159) 3)

### Solid acid catalysis

Comparative study of phenol alkylation mechanisms using homogeneous and silica-supported boron trifluoride catalysts (Wilson, K. (159) 309)

### Solid acids

Catalytic decomposition of CFC-12 over solid acids  $WO_3/M_{\nu}O_{\nu}$  (M = Ti, Sn, Fe) (Ma, Z. (159) 335)

#### Solvent effect

Solvent effects in the liquid phase Beckmann rearrangement of 4-hydroxyacetophenone oxime over H-Beta catalyst (Chung, Y.-M. (159) 389)

### Solvent effects

Acetylation of 2-methoxynaphthalene with acetic anhydride over a HBEA zeolite (Fromentin, E. (159) 377)

#### Soybean oi

The influence of the isomerization reactions on the soybean oil hydrogenation process (Jovanović, D. (159) 353)

#### Spillover of hydrogen

A novel ESR method based on dilute solid solutions of  $\mathrm{Mn^{3+}/Mn^{2+}}$  ions in MgO for detecting spillover of hydrogen from noble metals (Amir-Ebrahimi, V. (159) 429)

#### Spinel structure

Selective *N*-methylation of aniline with dimethyl carbonate over  $\operatorname{Zn}_{1-x}\operatorname{Co}_x\operatorname{Fe}_2\operatorname{O}_4$  ( $x=0,\ 0.2,\ 0.5,\ 0.8$  and 1.0) type systems (Sreekumar, K. (159) 327)

#### Starpolymers

A new ROMP W-initiator as model for W-carbosilane dendrimers for the synthesis of starpolymers (Beerens, H. (159) 197)

#### Structural effect

Competitive catalytic hydrogenation in systems of unsaturated hydrocarbons and nitrocompounds (Kačer, P. (159) 365)

#### Substituent effect

Mixed substituted zirconocene dichloride complexes as catalyst precursors for homogeneous ethylene polymerization (Licht, E.H. (159) 273)

### Sulfated metal oxide

Mechanisms of *n*-butane isomerization over superacidic sulfated metal oxides (Yang, T.-S. (159) 397)

### Superacid

Mechanisms of *n*-butane isomerization over superacidic sulfated metal oxides (Yang, T.-S. (159) 397)

## Superacid catalytic membrane

Selective oxidation of propane on a Nafion-based catalytic membrane mediated by  $Fe^{II}-H_2O_2$  Fenton system (Espro, C. (159) 359)

### Supported BF<sub>3</sub>

Comparative study of phenol alkylation mechanisms using homogeneous and silica-supported boron trifluoride catalysts (Wilson, K. (159) 309)

### Supported heteropolyacid

Synthesis of 2-butoxy ethanol with narrow-range distribution catalyzed by supported heteropolyacids (Wang, Y. (159) 71)

#### Synthesis

Synthesis and photocatalytic oxidation properties of Co(II)-te-tra-[4-(*p*-toluene-sulfonyloxy) phenyl] porphyrin (An, T. (159) 143)

### Tetrasubstituted urea

Catalytic oxidative carbonylation of aliphatic secondary amines to tetrasubstituted ureas (McCusker, J.E. (159) 11)

#### Tin oxide

Catalytic decomposition of CFC-12 over solid acids  $WO_3/M$ ,  $O_{cc}(M = Ti, Sn, Fe)$  (Ma, Z. (159) 335)

## TiO<sub>2</sub>

Degradation of air contaminants through the use of photoassisted heterogeneous catalysis: CF<sub>3</sub>COCl studied as an HCFC derivative (Zanini, G.P. (159) 347)

### Titania

Catalytic decomposition of CFC-12 over solid acids  $WO_3/M_xO_y$  (M = Ti, Sn, Fe) (Ma, Z. (159) 335)

### Titanium

Ligand effect in olefin polymerization catalyzed by (cyclopentadienyl)(aryloxy) titanium(IV) complexes, Cp'TiCl<sub>2</sub>-(OAr)–MAO system. Ethylene/1-hexene copolymerization by (1,3-<sup>t</sup>Bu<sub>2</sub>C<sub>5</sub>H<sub>3</sub>)TiCl<sub>2</sub>(O-2,6-<sup>i</sup>Pr<sub>2</sub>C<sub>6</sub>H<sub>3</sub>)–MAO catalyst system (Nomura, K. (159) 127)

#### Transesterification

Reactivity of some polymer-supported titanium catalysts in transesterification and epoxidation reactions (Deleuze, H. (159) 257)

Mg-Al-O-*t*-Bu hydrotalcite: a new and efficient heterogeneous catalyst for *trans*esterification (Choudary, B.M. (159) 411)

#### Tungsten

Catalytic oxidative carbonylation of aliphatic secondary amines to tetrasubstituted ureas (McCusker, J.E. (159) 11)

#### Tungsten (II) complexes

Use of the seven-coordinate complexes [MXY(CO)<sub>3</sub>(NCMe)<sub>2</sub>] (M = Mo or W; X, Y = halide) and their derivatives in homogeneous catalysis (Al-Jahdali, M. (159) 51)

#### Tungsten oxide

Catalytic decomposition of CFC-12 over solid acids  $WO_3/M$ . O. (M = Ti, Sn, Fe) (Ma, Z, (159) 335)

### Two-phase hydroformylation

Two-phase hydroformylation reaction catalysed by rhodium-complexed water-soluble dendrimers (Gong, A. (159) 225)

### Unsaturated hydrocarbons

Iron(III, II)-induced activation of dioxygen for the oxygenation of cyclohexene and related unsaturated hydrocarbons (Sobkowiak, A. (159) 247)

### V<sub>2</sub>O<sub>5</sub> catalyst

Characterization of K-mixed  $V_2O_5$  catalyst and oxidative dehydrogenation of propane on it (Ono, T. (159) 293)

### W-alkylidene

A new ROMP W-initiator as model for W-carbosilane dendrimers for the synthesis of starpolymers (Beerens, H. (159) 197)

### Water soluble biphasic catalysts

Use of the seven-coordinate complexes  $[MXY(CO)_3(NCMe)_2]$  (M = Mo or W; X, Y = halide) and their derivatives in homogeneous catalysis (Al-Jahdali, M. (159) 51)

#### Water-soluble catalyst

A highly effective water-soluble polymer-supported catalyst

for the two-phase asymmetric hydrogenation: preparation and use of a PEG-bound BINAP ligand (Fan. O.-H. (159) 37)

#### Water-soluble ligand

Two-phase hydroformylation reaction catalysed by rhodium-complexed water-soluble dendrimers (Gong, A. (159) 225)

### Zeolite Beta

Solvent effects in the liquid phase Beckmann rearrangement of 4-hydroxyacetophenone oxime over H-Beta catalyst (Chung, Y.-M. (159) 389)

### Ziegler-Natta catalyst

Control of molecular weight distribution for polyethylene catalyzed over Ziegler-Natta/Metallocene hybrid and mixed catalysts (Cho, H.S. (159) 203)

Toward the bimodality of polyethylene, initiated with a mixture of a Ziegler-Natta and a metallocene/MAO catalyst system (López-Linares, F. (159) 269)

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#### Zirconium

Mixed substituted zirconocene dichloride complexes as catalyst precursors for homogeneous ethylene polymerization (Licht, E.H. (159) 273)

#### Zirconocene

Characteristics of zirconocene catalysts supported on Al-MCM-41 for ethylene polymerization (Lee, K.-S. (159) 301) ZrO<sub>2</sub>

Active sites on ZrO<sub>2</sub> for the formation of isobutene from CO and H<sub>2</sub> (Maruya, K.-i. (159) 97)