

Subject index

Ab initio

Siting of B, Al, Ga or Zn and bridging hydroxyl groups in mordenite: an ab initio study (Yuan, S. (175) 131)

Acetoxylation

Hydration and acetoxylation of monoterpenes catalyzed by heteropoly acid (Robles-Dutenhefner, P.A. (175) 33)

Acetylene

Nieuwland catalysts: investigation of structure in the solid state and in solution and performance in the dimerization of acetylene (Nishiwaki, K. (175) 73)

Acid and base properties

Effect of calcium salts on isosynthesis over ZrO₂ catalysts (Li, Y. (175) 267)

Active site

Probing polyfunctional nature of vanadyl pyrophosphate catalysts: oxidation of 16 C₄ molecules (Gulians, V.V. (175) 227)

Adsorption

Solvent effects in the liquid-phase Beckmann rearrangement of oxime over H-Beta catalyst II: adsorption and FT-IR studies (Chung, Y.-M. (175) 249)

Alcohol oxidation

Oxidation of C₁–C₄ alcohols by iron- and ruthenium-sulfophthalocyanine precatalysts with hydrogen peroxide or mono-persulfate in water (d'Alessandro, N. (175) 83)

Alcohols

Vanadyl(IV) acetate: a mild and efficient heterogeneous catalyst for the tetrahydropyranylation of alcohols, thiols and phenols (Choudary, B.M. (175) 169)

Aldehydes

Oxidation of aldehydes using silica-supported Co(II)-substituted heteropolyacid (Kharat, A.N. (175) 277)

Allyl acetate

Liquid phase allylation of phenol using H β zeolite (Halligudi, S.B. (175) 161)

Allyl phenol

Liquid phase allylation of phenol using H β zeolite (Halligudi, S.B. (175) 161)

Allylation

Liquid phase allylation of phenol using H β zeolite (Halligudi, S.B. (175) 161)

Alumina

Metal-support interactions in cobalt-aluminum co-precipitated catalysts: XPS and CO adsorption studies (Khassin, A.A. (175) 189)

Aqueous organometallic catalysis

Oxidation of C₁–C₄ alcohols by iron- and ruthenium-sulfophthalocyanine precatalysts with hydrogen peroxide or mono-persulfate in water (d'Alessandro, N. (175) 83)

Aromatic halide

A novel silica-polyglycol supported polymer-anchored bimetallic palladium-based catalyst for dechlorination of aromatic chlorides in water (Kang, R. (175) 153)

B, Al, Ga or Zn

Siting of B, Al, Ga or Zn and bridging hydroxyl groups in mordenite: an ab initio study (Yuan, S. (175) 131)

Beckmann rearrangement

Solvent effects in the liquid-phase Beckmann rearrangement of oxime over H-Beta catalyst II: adsorption and FT-IR studies (Chung, Y.-M. (175) 249)

Bentonite

Selective hydroxylation of cyclic ethers with *tert*-butylhydroperoxide and hydrogen peroxide catalyzed by iron(III) and manganese(II) bipyridine complexes included in zeolite Y and bentonite (Salavati Niassary, M. (175) 105)

Biomimetic catalysis

Olefin oxidation with dioxygen catalyzed by porphyrins and phthalocyanines intercalated in α -zirconium phosphate (Niño, M.E. (175) 139)

Bipyridine

The electronic effect of 4,4'-disubstituted 2,2'-bipyridine ligands on the copper-catalysed oxidative coupling of 2,6-dimethylphenol (Aubel, P.G. (175) 27)

Bleaching catalysis

Polyoxometalate catalysis of dye bleaching by hydrogen peroxide (Gould, D.M. (175) 289)

Bridging OH

Siting of B, Al, Ga or Zn and bridging hydroxyl groups in mordenite: an ab initio study (Yuan, S. (175) 131)

1-Butene

Shape-selective catalysts: quasi-two-dimensional Pd-particles encapsulated in graphite (Mastalir, A. (175) 205)

Calcium salts

Effect of calcium salts on isosynthesis over ZrO₂ catalysts (Li, Y. (175) 267)

Caprolactam

Solvent effects in the liquid-phase Beckmann rearrangement of

- oxime over H-Beta catalyst II: adsorption and FT-IR studies (Chung, Y.-M. (175) 249)
- Carbon monoxide
Metal-support interactions in cobalt-aluminum co-precipitated catalysts: XPS and CO adsorption studies (Khassin, A.A. (175) 189)
- Carboxylic acids
Oxidation of aldehydes using silica-supported Co(II)-substituted heteropolyacid (Kharat, A.N. (175) 277)
- Catalysis
Nieuwland catalysts: investigation of structure in the solid state and in solution and performance in the dimerization of acetylene (Nishiwaki, K. (175) 73)
- Ce-SAPO-18
Investigations of nitric oxide and carbon monoxide adsorption on the new generation cerium exchanged silico-aluminophosphate of type 18 catalyst (Kladis, C. (175) 241)
- Cinchonidine
Enantioselective hydrogenation of trifluoroacetophenone over polymer-stabilized platinum nanoclusters (Zhang, J. (175) 125)
- Cis-2-pentene
Shape-selective catalysts: quasi-two-dimensional Pd-particles encapsulated in graphite (Mastalir, A. (175) 205)
- CO
Investigations of nitric oxide and carbon monoxide adsorption on the new generation cerium exchanged silico-aluminophosphate of type 18 catalyst (Kladis, C. (175) 241)
- Cobalt
Metal-support interactions in cobalt-aluminum co-precipitated catalysts: XPS and CO adsorption studies (Khassin, A.A. (175) 189)
- Copper catalysts
The electronic effect of 4,4'-disubstituted 2,2'-bipyridine ligands on the copper-catalysed oxidative coupling of 2,6-dimethylphenol (Aubel, P.G. (175) 27)
Ligand effects in the copper catalyzed aerobic oxidative carbonylation of methanol to dimethyl carbonate (DMC) (Raab, V. (175) 51)
- Copper
Nieuwland catalysts: investigation of structure in the solid state and in solution and performance in the dimerization of acetylene (Nishiwaki, K. (175) 73)
- Corrosion resistance
Ligand effects in the copper catalyzed aerobic oxidative carbonylation of methanol to dimethyl carbonate (DMC) (Raab, V. (175) 51)
- Crocetin
Polyoxometalate catalysis of dye bleaching by hydrogen peroxide (Gould, D.M. (175) 289)
- Cyclic ethers
Selective hydroxylation of cyclic ethers with *tert*-butylhydroperoxide and hydrogen peroxide catalyzed by iron(III) and manganese(II) bipyridine complexes included in zeolite Y and bentonite (Salavati Niassary, M. (175) 105)
- Cyclohexanone oxime
Solvent effects in the liquid-phase Beckmann rearrangement of oxime over H-Beta catalyst II: adsorption and FT-IR studies (Chung, Y.-M. (175) 249)
- Deactivation
Shape-selective catalysts: quasi-two-dimensional Pd-particles encapsulated in graphite (Mastalir, A. (175) 205)
- Dehalogenation
A novel silica-polyglycol supported polymer-anchored bimetallic palladium-based catalyst for dechlorination of aromatic chlorides in water (Kang, R. (175) 153)
- DFT
Theoretical study on ethene metathesis proceeding on Mo^{VI} and Mo^{IV} methyldene centres of heterogeneous molybdena-alumina catalyst (Handzlik, J. (175) 215)
- dialdehydes
Preparation of linear long chain dialdehydes by hydroformylation of linear α,ω -dienes or ω -vinylaldehyde acetals (Botteghi, C. (175) 17)
- Dielectric constant
Solvent effects in the liquid-phase Beckmann rearrangement of oxime over H-Beta catalyst II: adsorption and FT-IR studies (Chung, Y.-M. (175) 249)
- ω -dienes
Preparation of linear long chain dialdehydes by hydroformylation of linear α,ω -dienes or ω -vinylaldehyde acetals (Botteghi, C. (175) 17)
- Diffuse reflectance FT-IR spectroscopy
Reaction intermediates in the selective reduction of NO with propene over Ga₂O₃-Al₂O₃ and In₂O₃-Al₂O₃ catalysts (Haneda, M. (175) 179)
- Dimerization
Nieuwland catalysts: investigation of structure in the solid state and in solution and performance in the dimerization of acetylene (Nishiwaki, K. (175) 73)
- Dimethyl carbonate synthesis
Ligand effects in the copper catalyzed aerobic oxidative carbonylation of methanol to dimethyl carbonate (DMC) (Raab, V. (175) 51)
- Dioxygen reductive activation
Olefin oxidation with dioxygen catalyzed by porphyrins and phthalocyanines intercalated in α -zirconium phosphate (Niño, M.E. (175) 139)
- Dioxygen uptake
The electronic effect of 4,4'-disubstituted 2,2'-bipyridine ligands on the copper-catalysed oxidative coupling of 2,6-dimethylphenol (Aubel, P.G. (175) 27)
- Electronic effect
The electronic effect of 4,4'-disubstituted 2,2'-bipyridine ligands on the copper-catalysed oxidative coupling of 2,6-dimethylphenol (Aubel, P.G. (175) 27)
- Enantioselective hydrogenation
Enantioselective hydrogenation of trifluoroacetophenone over polymer-stabilized platinum nanoclusters (Zhang, J. (175) 125)
- Encapsulation
Shape-selective catalysts: quasi-two-dimensional Pd-particles encapsulated in graphite (Mastalir, A. (175) 205)

- Ethene metathesis
Theoretical study on ethene metathesis proceeding on Mo^{VI} and Mo^{IV} methylidene centres of heterogeneous molybdena-alumina catalyst (Handzlik, J.V.z. (175) 215)
- Ethene
Keggin-type polyoxotungstate as a catalyst in oxidative dehydrogenation of propane (Al-Zahrani, S.M. (175) 259)
- Ethylene copolymer
Characterization and evaluation of the nature of chemical species generated in hybrid Ziegler–Natta/metalloocene catalyst (de Camargo Forte, M.M. (175) 91)
- Ethylene polymerization
Amido functionalized *ansa* fluorenylidene half-sandwich complexes of zirconium as catalyst precursors for homogeneous ethylene polymerization (Alt, H.G. (175) 43)
- FT-IR
Investigations of nitric oxide and carbon monoxide adsorption on the new generation cerium exchanged silico-aluminophosphate of type 18 catalyst (Kladis, C. (175) 241)
- Fumed silica
Oxidation of aldehydes using silica-supported Co(II)-substituted heteropolyacid (Kharat, A.N. (175) 277)
- Ga₂O₃-Al₂O₃
Reaction intermediates in the selective reduction of NO with propene over Ga₂O₃-Al₂O₃ and In₂O₃-Al₂O₃ catalysts (Haneda, M. (175) 179)
- Gaussian
Theoretical study on ethene metathesis proceeding on Mo^{VI} and Mo^{IV} methylidene centres of heterogeneous molybdena-alumina catalyst (Handzlik, J.V.z. (175) 215)
- GC–MS
Reaction intermediates in the selective reduction of NO with propene over Ga₂O₃-Al₂O₃ and In₂O₃-Al₂O₃ catalysts (Haneda, M. (175) 179)
- Graphite
Shape-selective catalysts: quasi-two-dimensional Pd-particles encapsulated in graphite (Mastalir, A. (175) 205)
- Hβ-30
Liquid phase allylation of phenol using Hβ zeolite (Halligudi, S.B. (175) 161)
- H₂ sorption
Shape-selective catalysts: quasi-two-dimensional Pd-particles encapsulated in graphite (Mastalir, A. (175) 205)
- Half-sandwich *ansa* fluorenylidene complexes
Amido functionalized *ansa* fluorenylidene half-sandwich complexes of zirconium as catalyst precursors for homogeneous ethylene polymerization (Alt, H.G. (175) 43)
- Heterogeneous catalysts
Oxidation of aldehydes using silica-supported Co(II)-substituted heteropolyacid (Kharat, A.N. (175) 277)
- Heteropoly acid
Hydration and acetoxylation of monoterpenes catalyzed by heteropoly acid (Robles-Dutenhefner, P.A. (175) 33)
- Heteropolyacid
Oxidation of aldehydes using silica-supported Co(II)-substituted heteropolyacid (Kharat, A.N. (175) 277)
- Homogeneous hydrogenation
Kinetics of the hydrogenation of 1-octene catalyzed by [Ni(*o*-MeO-dppp)(OAc)₂] (Angulo, I.M. (175) 65)
- Homogeneous polymerization
Amido functionalized *ansa* fluorenylidene half-sandwich complexes of zirconium as catalyst precursors for homogeneous ethylene polymerization (Alt, H.G. (175) 43)
- Hybrid catalysts
Characterization and evaluation of the nature of chemical species generated in hybrid Ziegler–Natta/metalloocene catalyst (de Camargo Forte, M.M. (175) 91)
- Hydration
Hydration and acetoxylation of monoterpenes catalyzed by heteropoly acid (Robles-Dutenhefner, P.A. (175) 33)
- Hydroformylation
Preparation of linear long chain dialdehydes by hydroformylation of linear α,ω-dienes or ω-vinylaldehyde acetals (Botteghi, C. (175) 17)
- 1-Vinylimidazole – a versatile building block for the synthesis of cationic phosphines useful in ionic liquid biphasic catalysis (Kottsieper, K.W. (175) 285)
- Hydrogen peroxide
Oxidation of C₁–C₄ alcohols by iron- and ruthenium-sulfophthalocyanine precatalysts with hydrogen peroxide or mono-persulfate in water (d’Alessandro, N. (175) 83)
- Hydroxylation
Selective hydroxylation of cyclic ethers with *tert*-butylhydroperoxide and hydrogen peroxide catalyzed by iron(III) and manganese(II) bipyridine complexes included in zeolite Y and bentonite (Salavati Niassary, M. (175) 105)
- 1-imidazolium phosphines
1-Vinylimidazole – a versatile building block for the synthesis of cationic phosphines useful in ionic liquid biphasic catalysis (Kottsieper, K.W. (175) 285)
- 1-imidazolylphosphines
1-Vinylimidazole – a versatile building block for the synthesis of cationic phosphines useful in ionic liquid biphasic catalysis (Kottsieper, K.W. (175) 285)
- In₂O₃-Al₂O₃
Reaction intermediates in the selective reduction of NO with propene over Ga₂O₃-Al₂O₃ and In₂O₃-Al₂O₃ catalysts (Haneda, M. (175) 179)
- Ionic liquids
1-Vinylimidazole – a versatile building block for the synthesis of cationic phosphines useful in ionic liquid biphasic catalysis (Kottsieper, K.W. (175) 285)
- Isosynthesis
Effect of calcium salts on isosynthesis over ZrO₂ catalysts (Li, Y. (175) 267)
- Keggin-type polyoxotungstate
Keggin-type polyoxotungstate as a catalyst in oxidative dehydrogenation of propane (Al-Zahrani, S.M. (175) 259)

Kinetics

- Kinetics of the hydrogenation of 1-octene catalyzed by [Ni(*o*-MeO-dppp)(OAc)₂] (Angulo, I.M. (175) 65)
 Polyoxometalate catalysis of dye bleaching by hydrogen peroxide (Gould, D.M. (175) 289)

 β -Lactam antibiotics

- The role of a β -proton transfer donor in the degradation of benzylpenicillin (Llinás, A. (175) 3)

Laser Raman

- Methane combustion over supported cobalt catalysts (Xiao, T. (175) 111)

Mechanism

- Probing polyfunctional nature of vanadyl pyrophosphate catalysts: oxidation of 16 C₄ molecules (Gulians, V.V. (175) 227)

Metal-support interaction

- Metal-support interactions in cobalt-aluminum co-precipitated catalysts: XPS and CO adsorption studies (Khassin, A.A. (175) 189)

Metal-sulphophthalocyanine

- Oxidation of C₁-C₄ alcohols by iron- and ruthenium-sulphophthalocyanine precatalysts with hydrogen peroxide or mono-persulfate in water (d'Alessandro, N. (175) 83)

Metallocene

- Characterization and evaluation of the nature of chemical species generated in hybrid Ziegler-Natta/metallocene catalyst (de Camargo Forte, M.M. (175) 91)

Methane combustion

- Methane combustion over supported cobalt catalysts (Xiao, T. (175) 111)

Methyl orange

- Polyoxometalate catalysis of dye bleaching by hydrogen peroxide (Gould, D.M. (175) 289)

Molybdena-alumina catalyst

- Theoretical study on ethene metathesis proceeding on Mo^{VI} and Mo^{IV} methylidene centres of heterogeneous molybdena-alumina catalyst (Handzlik, J.V.z. (175) 215)

Monoterpenes

- Hydration and acetoxylation of monoterpenes catalyzed by heteropoly acid (Robles-Dutenhefner, P.A. (175) 33)

Mordenite

- Siting of B, Al, Ga or Zn and bridging hydroxyl groups in mordenite: an ab initio study (Yuan, S. (175) 131)

N-ligands

- Ligand effects in the copper catalyzed aerobic oxidative carbonylation of methanol to dimethyl carbonate (DMC) (Raab, V. (175) 51)

Nickel

- Kinetics of the hydrogenation of 1-octene catalyzed by [Ni(*o*-MeO-dppp)(OAc)₂] (Angulo, I.M. (175) 65)

NMR spectroscopy

- Amido functionalized *ansa* fluorenylidene half-sandwich complexes of zirconium as catalyst precursors for homogeneous ethylene polymerization (Alt, H.G. (175) 43)

NO reduction by propene

- Reaction intermediates in the selective reduction of NO with propene over Ga₂O₃-Al₂O₃ and In₂O₃-Al₂O₃ catalysts (Haneda, M. (175) 179)

NO

- Investigations of nitric oxide and carbon monoxide adsorption on the new generation cerium exchanged silico-aluminophosphate of type 18 catalyst (Kladis, C. (175) 241)

Olefin epoxidation

- Olefin oxidation with dioxygen catalyzed by porphyrins and phthalocyanines intercalated in α -zirconium phosphate (Niño, M.E. (175) 139)

Oxidation state

- Probing polyfunctional nature of vanadyl pyrophosphate catalysts: oxidation of 16 C₄ molecules (Gulians, V.V. (175) 227)

Oxidative carbonylation

- Ligand effects in the copper catalyzed aerobic oxidative carbonylation of methanol to dimethyl carbonate (DMC) (Raab, V. (175) 51)

Oxidative dehydrogenation

- Keggin-type polyoxotungstate as a catalyst in oxidative dehydrogenation of propane (Al-Zahrani, S.M. (175) 259)

Palladium

- Shape-selective catalysts: quasi-two-dimensional Pd-particles encapsulated in graphite (Mastalir, A. (175) 205)

Penicillin

- The role of a β -proton transfer donor in the degradation of benzylpenicillin (Llinás, A. (175) 3)

Phenol oxidation

- The electronic effect of 4,4'-disubstituted 2,2'-bipyridine ligands on the copper-catalysed oxidative coupling of 2,6-dimethylphenol (Aubel, P.G. (175) 27)

Phenol

- Liquid phase allylation of phenol using H β zeolite (Halligudi, S.B. (175) 161)

Phosphane ligands

- Kinetics of the hydrogenation of 1-octene catalyzed by [Ni(*o*-MeO-dppp)(OAc)₂] (Angulo, I.M. (175) 65)

Photoreaction

- Photoenhanced reduction of CO₂ by H₂ over Rh/TiO₂. Characterization of supported Rh species by means of infrared and X-ray absorption spectroscopy (Kohno, Y. (175) 173)

Phthalocyanines and tetraphenylporphyrins intercalated

- Olefin oxidation with dioxygen catalyzed by porphyrins and phthalocyanines intercalated in α -zirconium phosphate (Niño, M.E. (175) 139)

Platinum nanocluster

- Enantioselective hydrogenation of trifluoroacetophenone over polymer-stabilized platinum nanoclusters (Zhang, J. (175) 125)

Polymer-anchored bimetallic complex

- A novel silica-polyglycol supported polymer-anchored bimetallic palladium-based catalyst for dechlorination of aromatic chlorides in water (Kang, R. (175) 153)

- Polyoxometalates**
Polyoxometalate catalysis of dye bleaching by hydrogen peroxide (Gould, D.M. (175) 289)
- Promoting effect**
Effect of calcium salts on isosynthesis over ZrO₂ catalysts (Li, Y. (175) 267)
- Propane**
Keggin-type polyoxotungstate as a catalyst in oxidative dehydrogenation of propane (Al-Zahrani, S.M. (175) 259)
- Propene**
Keggin-type polyoxotungstate as a catalyst in oxidative dehydrogenation of propane (Al-Zahrani, S.M. (175) 259)
- Proton transfer reaction**
The role of a β -proton transfer donor in the degradation of benzylpenicillin (Llinás, A. (175) 3)
- Reaction mechanism**
Kinetics of the hydrogenation of 1-octene catalyzed by [Ni(*o*-MeO-dppp)(OAc)₂] (Angulo, I.M. (175) 65)
- Rearrangement**
Shape-selective catalysts: quasi-two-dimensional Pd-particles encapsulated in graphite (Mastalir, A. (175) 205)
- Rhodium**
Preparation of linear long chain dialdehydes by hydroformylation of linear α,ω -dienes or ω -vinylaldehyde acetals (Botteghi, C. (175) 17)
- Ruthenium complexes**
Oxidation of C₁–C₄ alcohols by iron- and ruthenium-sulphocyanine precatalysts with hydrogen peroxide or mono-persulfate in water (d'Alessandro, N. (175) 83)
- SAPO-18**
Investigations of nitric oxide and carbon monoxide adsorption on the new generation cerium exchanged silico-aluminophosphate of type 18 catalyst (Kladis, C. (175) 241)
- Selective oxidation**
Probing polyfunctional nature of vanadyl pyrophosphate catalysts: oxidation of 16 C₄ molecules (Gulians, V.V. (175) 227)
- Shape-selectivity**
Shape-selective catalysts: quasi-two-dimensional Pd-particles encapsulated in graphite (Mastalir, A. (175) 205)
- Silico-aluminophosphates**
Investigations of nitric oxide and carbon monoxide adsorption on the new generation cerium exchanged silico-aluminophosphate of type 18 catalyst (Kladis, C. (175) 241)
- Siting**
Siting of B, Al, Ga or Zn and bridging hydroxyl groups in mordenite: an ab initio study (Yuan, S. (175) 131)
- Solvent effect**
Solvent effects in the liquid-phase Beckmann rearrangement of oxime over H-Beta catalyst II: adsorption and FT-IR studies (Chung, Y.-M. (175) 249)
- Spectroscopy**
Photoenhanced reduction of CO₂ by H₂ over Rh/TiO₂. Characterization of supported Rh species by means of infrared and X-ray absorption spectroscopy (Kohno, Y. (175) 173)
- Supported cobalt catalyst**
Methane combustion over supported cobalt catalysts (Xiao, T. (175) 111)
- Supported phase transfer catalyst**
A novel silica-polyglycol supported polymer-anchored bimetallic palladium-based catalyst for dechlorination of aromatic chlorides in water (Kang, R. (175) 153)
- Surface species**
Investigations of nitric oxide and carbon monoxide adsorption on the new generation cerium exchanged silico-aluminophosphate of type 18 catalyst (Kladis, C. (175) 241)
- TEM**
Shape-selective catalysts: quasi-two-dimensional Pd-particles encapsulated in graphite (Mastalir, A. (175) 205)
- Tetrahydropyranylation**
Vanadyl(IV) acetate: a mild and efficient heterogeneous catalyst for the tetrahydropyranylation of alcohols, thiols and phenols (Choudary, B.M. (175) 169)
- Thiols and phenols**
Vanadyl(IV) acetate: a mild and efficient heterogeneous catalyst for the tetrahydropyranylation of alcohols, thiols and phenols (Choudary, B.M. (175) 169)
- Thiolysis**
The role of a β -proton transfer donor in the degradation of benzylpenicillin (Llinás, A. (175) 3)
- Trifluoroacetophenone**
Enantioselective hydrogenation of trifluoroacetophenone over polymer-stabilized platinum nanoclusters (Zhang, J. (175) 125)
- UV-VIS**
Characterization and evaluation of the nature of chemical species generated in hybrid Ziegler-Natta/metalocene catalyst (de Camargo Forte, M.M. (175) 91)
- Vanadyl pyrophosphate**
Probing polyfunctional nature of vanadyl pyrophosphate catalysts: oxidation of 16 C₄ molecules (Gulians, V.V. (175) 227)
- Vanadyl(IV) acetate**
Vanadyl(IV) acetate: a mild and efficient heterogeneous catalyst for the tetrahydropyranylation of alcohols, thiols and phenols (Choudary, B.M. (175) 169)
- 1-vinylimidazole**
1-Vinylimidazole – a versatile building block for the synthesis of cationic phosphines useful in ionic liquid biphasic catalysis (Kottsieper, K.W. (175) 285)
- α,ω -Vinylaldehyde acetals**
Preparation of linear long chain dialdehydes by hydroformylation of linear α,ω -dienes or ω -vinylaldehyde acetals (Botteghi, C. (175) 17)
- Wastewater**
A novel silica-polyglycol supported polymer-anchored bimetallic palladium-based catalyst for dechlorination of aromatic chlorides in water (Kang, R. (175) 153)

X-ray absorption

Photoenhanced reduction of CO₂ by H₂ over Rh/TiO₂. Characterization of supported Rh species by means of infrared and X-ray absorption spectroscopy (Kohno, Y. (175) 173)

XPS

Characterization and evaluation of the nature of chemical species generated in hybrid Ziegler–Natta/metallocene catalyst (de Camargo Forte, M.M. (175) 91)

Metal–support interactions in cobalt–aluminum co-precipitated catalysts: XPS and CO adsorption studies (Khassin, A.A. (175) 189)

Investigations of nitric oxide and carbon monoxide adsorption on the new generation cerium exchanged silico–aluminophosphate of type 18 catalyst (Kladis, C. (175) 241)

Zeolite catalyst

Solvent effects in the liquid-phase Beckmann rearrangement of oxime over H-Beta catalyst II: adsorption and FT-IR studies (Chung, Y.-M. (175) 249)

Zeolite Y

Selective hydroxylation of cyclic ethers with *tert*-butylhydroperoxide and hydrogen peroxide catalyzed by iron(III) and manganese(II) bipyridine complexes included in zeolite Y and bentonite (Salavati Niassary, M. (175) 105)

Ziegler–Natta

Characterization and evaluation of the nature of chemical species generated in hybrid Ziegler–Natta/metallocene catalyst (de Camargo Forte, M.M. (175) 91)

Zirconia

Effect of calcium salts on isosynthesis over ZrO₂ catalysts (Li, Y. (175) 267)

Zirconium

Amido functionalized *ansa* fluorenylidene half-sandwich complexes of zirconium as catalyst precursors for homogeneous ethylene polymerization (Alt, H.G. (175) 43)

 α -Zirconium phosphate

Olefin oxidation with dioxygen catalyzed by porphyrins and phthalocyanines intercalated in α -zirconium phosphate (Niño, M.E. (175) 139)