

Subject index

Acetic acid

Acetic acid synthesis from methane by non-synthesis gas process (Wang, K.X. (225) 65)

Acetophenone

Palladium-catalysed dehydrogenation of 1-phenylethanol in dense carbon dioxide (Burgener, M. (225) 21)

Acid catalysis

Selective alkylation of phenol with *tert*-butyl alcohol catalyzed by Brønsted acidic imidazolium salts (Gui, J. (225) 27)

Activated carbon

Effect of rhenium on copper supported on activated carbon catalysts for methanol decomposition (Tsoncheva, T. (225) 245)

Acylation

Friedel–Crafts acylation of aromatics and heteroaromatics by beta zeolite (Kantam, M.L. (225) 15)

Modified zirconia solid acid catalysts for organic synthesis and transformations (Reddy, B.M. (225) 71)

Adsorption

Adsorption and reactions of butyl species over Mo₂C catalyst (Solymsi, F. (225) 217)

Alcohol oxidation

Pd(II)-biquinoline catalyzed aerobic oxidation of alcohols in water (Buffin, B.P. (225) 111)

Aldehyde

Reversal of enantioselectivity by adding Ti(O^{*i*}Pr)₄: novel sulfamide-amine alcohol ligands for the catalytic asymmetric addition of diethylzinc to aldehydes (Mao, J. (225) 33)

Nickel(II) chloride catalyzed one-pot synthesis of α -aminonitriles (De, S.K. (225) 169)

Alkali promotion

The oxidative dehydrogenation of propane over potassium-promoted molybdenum oxide/sol–gel zirconia catalysts (Koc, S.N. (225) 197)

Alkane hydroxylation

Synthesis, characterization, and catalytic oxygenation activity of dinuclear iron(III) complex supported by binaphthol-containing chiral ligand (Nagataki, T. (225) 103)

Alkanes

Control of the catalytic oxidations mediated by an oxo-bridged non-heme diiron complex: role of additives and reaction conditions (Tanase, S. (225) 161)

Alkenes

Control of the catalytic oxidations mediated by an oxo-bridged non-heme diiron complex: role of additives and reaction conditions (Tanase, S. (225) 161)

Alkylation

Selective alkylation of phenol with *tert*-butyl alcohol catalyzed by Brønsted acidic imidazolium salts (Gui, J. (225) 27)

Alumina

Dibenzothiophene hydrodesulfurization over alumina-supported β -Mo₂N_{0.78} catalyst (Gong, S. (225) 213)

Amines

Nickel(II) chloride catalyzed one-pot synthesis of α -aminonitriles (De, S.K. (225) 169)

α -Aminonitriles

Nickel(II) chloride catalyzed one-pot synthesis of α -aminonitriles (De, S.K. (225) 169)

Anatase

Efficient degradation of dye pollutants on nanoporous polyoxotungstate–anatase composite under visible-light irradiation (Yang, Y. (225) 203)

Aqueous catalysis

Pd(II)-biquinoline catalyzed aerobic oxidation of alcohols in water (Buffin, B.P. (225) 111)

Ascorbic acid

Cu precipitate formed during the benzene oxidation catalyzed by supported Cu in the presence of ascorbic acid and O₂ (Takata, K. (225) 125)

BaCO₃

Role of Pt-precursor on the performance of Pt/BaCO₃/Al₂O₃·NO_x storage catalysts (Dawody, J. (225) 259)

Benzaldehyde

Selective carbonylation of benzene to benzaldehyde using O₂ as the oxidant in the presence of cobalt complex (Zhao, W.J. (225) 131)

The reaction of ketones with benzaldehyde catalyzed by TiCl₄·2THF (Tao, X. (225) 239)

Benzene

Adsorption and reactions of butyl species over Mo₂C catalyst (Solymsi, F. (225) 217)

Cu precipitate formed during the benzene oxidation catalyzed by supported Cu in the presence of ascorbic acid and O₂ (Takata, K. (225) 125)

Pillared laponite clays-supported palladium catalysts for the complete oxidation of benzene (Jinjun, L. (225) 173)

Selective carbonylation of benzene to benzaldehyde using O₂ as the oxidant in the presence of cobalt complex (Zhao, W.J. (225) 131)

1,5-Benzodiazepines

Modified zirconia solid acid catalysts for organic synthesis and transformations (Reddy, B.M. (225) 71)

Beta zeolite

Friedel–Crafts acylation of aromatics and heteroaromatics by beta zeolite (Kantam, M.L. (225) 15)

Isomerisation of α -pinene over Beta zeolites synthesised by different methods (Gündüz, G. (225) 253)

Binaphthol

Synthesis, characterization, and catalytic oxygenation activity of dinuclear iron(III) complex supported by binaphthol-containing chiral ligand (Nagataki, T. (225) 103)

Bismuth

Mechanistic and kinetic studies on glyoxal oxidation with Bi- and Pb-promoted Pd/C catalysts (Alardin, F. (225) 79)

Brønsted and Lewis acid sites

Characterization of sulfated TiO₂ prepared by the sol–gel method and its catalytic activity in the *n*-hexane isomerization reaction (Noda, L.K. (225) 39)

- Bromobenzene(s)**
C–X bond reactivity in the catalytic hydrodehalogenation of haloarenes over unsupported and silica supported Ni (Murthy, K.V. (225) 149)
- Bromomethane**
Acetic acid synthesis from methane by non-synthesis gas process (Wang, K.X. (225) 65)
- Butane**
Adsorption and reactions of butyl species over Mo₂C catalyst (Soly-mosi, F. (225) 217)
- Carbide**
Comparison of bulk CoMo bimetallic carbide, oxide, nitride and sulfide catalysts for pyridine hydrodenitrogenation (Al-Megren, H.A. (225) 143)
- Carbon nanotube**
Controlled growth of Ni particles on carbon nanotubes for fabrication of carbon nanotubes (Liu, H. (225) 233)
- Carboxylic acid**
Catalytic activity of salenCo(III)OAc complex in the reaction of addition of carboxylic acids to terminal epoxides (Bukowska, A. (225) 7)
- Catalysis**
Enantioselective reduction of acetophenone with PMHS and tin(II) complexes of chiral pyridine ligands (Chelucci, G. (225) 11)
The reaction of ketones with benzaldehyde catalyzed by TiCl₄·2THF (Tao, X. (225) 239)
- Catalyst**
Acetic acid synthesis from methane by non-synthesis gas process (Wang, K.X. (225) 65)
- Catalytic asymmetric addition**
Reversal of enantioselectivity by adding Ti(OⁱPr)₄: novel sulfamide-amine alcohol ligands for the catalytic asymmetric addition of diethyl-zinc to aldehydes (Mao, J. (225) 33)
- Catalytic oxidation**
Control of the catalytic oxidations mediated by an oxo-bridged non-heme diiron complex: role of additives and reaction conditions (Tanase, S. (225) 161)
Pillared laponite clays-supported palladium catalysts for the complete oxidation of benzene (Jinjun, L. (225) 173)
- Chlorobenzene(s)**
C–X bond reactivity in the catalytic hydrodehalogenation of haloarenes over unsupported and silica supported Ni (Murthy, K.V. (225) 149)
- Chlorobromobenzene**
C–X bond reactivity in the catalytic hydrodehalogenation of haloarenes over unsupported and silica supported Ni (Murthy, K.V. (225) 149)
- CO photocatalytic activity**
Effect of calcination and reduction treatment on the photocatalytic activity of CO oxidation on Pt/TiO₂ (Zhang, M. (225) 59)
- Cobalt**
The effect of cobalt and zinc precursors on Co (10%)/Zn (x%)/TiO₂ (x=0, 5) Fischer–Tropsch catalysts (Madikizela-Mnqanqeni, N.N. (225) 137)
- Cobalt complex**
Selective carbonylation of benzene to benzaldehyde using O₂ as the oxidant in the presence of cobalt complex (Zhao, W.J. (225) 131)
- CoMo catalyst**
Comparison of bulk CoMo bimetallic carbide, oxide, nitride and sulfide catalysts for pyridine hydrodenitrogenation (Al-Megren, H.A. (225) 143)
- Complexes**
Transition metal Schiff-base complexes chemically anchored on Y-zeolite: their preparation and catalytic epoxidation of 1-octene in the suspension and phase boundary systems (Mostafa, S.I. (225) 181)
- Copper oxalate**
Cu precipitate formed during the benzene oxidation catalyzed by supported Cu in the presence of ascorbic acid and O₂ (Takata, K. (225) 125)
- Copper oxide catalysts**
Effect of rhenium on copper supported on activated carbon catalysts for methanol decomposition (Tsoncheva, T. (225) 245)
- Coumarines**
Modified zirconia solid acid catalysts for organic synthesis and transformations (Reddy, B.M. (225) 71)
- m-CPBA**
Synthesis, characterization, and catalytic oxygenation activity of dinuclear iron(III) complex supported by binaphthol-containing chiral ligand (Nagataki, T. (225) 103)
- Degradation**
Efficient degradation of dye pollutants on nanoporous polyoxotungstate–anatase composite under visible-light irradiation (Yang, Y. (225) 203)
- Dehydrogenation of 1-phenylethanol**
Palladium-catalysed dehydrogenation of 1-phenylethanol in dense carbon dioxide (Burgener, M. (225) 21)
- Dibenzothiophene**
Dibenzothiophene hydrodesulfurization over alumina-supported β-Mo₂N_{0.78} catalyst (Gong, S. (225) 213)
- Diethylzinc**
Reversal of enantioselectivity by adding Ti(OⁱPr)₄: novel sulfamide-amine alcohol ligands for the catalytic asymmetric addition of diethyl-zinc to aldehydes (Mao, J. (225) 33)
- Diiron complex**
Synthesis, characterization, and catalytic oxygenation activity of dinuclear iron(III) complex supported by binaphthol-containing chiral ligand (Nagataki, T. (225) 103)
- Diphenylureas**
Modified zirconia solid acid catalysts for organic synthesis and transformations (Reddy, B.M. (225) 71)
- Disproportionation**
The effect of Y-zeolite acidity on *m*-xylene transformation reactions (Al-Khattaf, S. (225) 117)
- Double bond migration**
Highly selective isomerization of *N*-allylamides catalyzed by ruthenium and rhodium complexes (Krompiec, S. (225) 91)
- Dye**
Efficient degradation of dye pollutants on nanoporous polyoxotungstate–anatase composite under visible-light irradiation (Yang, Y. (225) 203)
- Electroless plating**
Controlled growth of Ni particles on carbon nanotubes for fabrication of carbon nanotubes (Liu, H. (225) 233)
- Enantioselectivity**
Enantioselective reduction of acetophenone with PMHS and tin(II) complexes of chiral pyridine ligands (Chelucci, G. (225) 11)
- Epoxidation**
Transition metal Schiff-base complexes chemically anchored on Y-zeolite: their preparation and catalytic epoxidation of 1-octene in the suspension and phase boundary systems (Mostafa, S.I. (225) 181)
- Epoxide**
Catalytic activity of salenCo(III)OAc complex in the reaction of addition of carboxylic acids to terminal epoxides (Bukowska, A. (225) 7)
- Fischer–Tropsch catalysis**
The effect of cobalt and zinc precursors on Co (10%)/Zn (x%)/TiO₂ (x=0, 5) Fischer–Tropsch catalysts (Madikizela-Mnqanqeni, N.N. (225) 137)
- Fluorobenzene**
C–X bond reactivity in the catalytic hydrodehalogenation of haloarenes over unsupported and silica supported Ni (Murthy, K.V. (225) 149)
- Friedel–Crafts reaction**
Friedel–Crafts acylation of aromatics and heteroaromatics by beta zeolite (Kantam, M.L. (225) 15)

- FTIR**
Role of Pt-precursor on the performance of Pt/BaCO₃/Al₂O₃-NO_x storage catalysts (Dawody, J. (225) 259)
- FTIRS**
Silica-supported zirconocene/(perfluorophenyl)borate catalyst for propylene polymerization. DRIFTS study of the catalyst formation and surface species (Panchenko, V.N. (225) 271)
- Functional resins**
Generation of size-controlled gold(0) and palladium(0) nanoclusters inside the nanoporous domains of gel-type functional resins. Part I: Synthetic aspects and first catalytic data in the liquid phase (Corain, B. (225) 189)
- Glyoxal oxidation**
Mechanistic and kinetic studies on glyoxal oxidation with Bi- and Pb-promoted Pd/C catalysts (Alardin, F. (225) 79)
- Glyoxalic acid**
Mechanistic and kinetic studies on glyoxal oxidation with Bi- and Pb-promoted Pd/C catalysts (Alardin, F. (225) 79)
- n-Hexane**
Characterization of sulfated TiO₂ prepared by the sol-gel method and its catalytic activity in the *n*-hexane isomerization reaction (Noda, L.K. (225) 39)
- H₂O₂**
Synthesis, characterization and study of polymeric iron(III) complexes with bidentate *p*-hydroxy Schiff bases as heterogeneous catalysts (Abbo, H.S. (225) 225)
- Hydrodehalogenation**
C-X bond reactivity in the catalytic hydrodehalogenation of haloarenes over unsupported and silica supported Ni (Murthy, K.V. (225) 149)
- Hydrodesulfurization**
Dibenzothiophene hydrodesulfurization over alumina-supported β-Mo₂N_{0.78} catalyst (Gong, S. (225) 213)
- Hydrogen peroxide**
Control of the catalytic oxidations mediated by an oxo-bridged non-heme diiron complex: role of additives and reaction conditions (Tanase, S. (225) 161)
- Hydrogenation**
Chemical and catalytic activity of copper nanoparticles prepared via metal vapor synthesis (Ponce, A.A. (225) 1)
- Iodobenzene**
C-X bond reactivity in the catalytic hydrodehalogenation of haloarenes over unsupported and silica supported Ni (Murthy, K.V. (225) 149)
- Ionic liquid**
Selective alkylation of phenol with *tert*-butyl alcohol catalyzed by Brønsted acidic imidazolium salts (Gui, J. (225) 27)
- Iron**
Control of the catalytic oxidations mediated by an oxo-bridged non-heme diiron complex: role of additives and reaction conditions (Tanase, S. (225) 161)
- Iron(III)**
Synthesis, characterization and study of polymeric iron(III) complexes with bidentate *p*-hydroxy Schiff bases as heterogeneous catalysts (Abbo, H.S. (225) 225)
- Isomerization**
Characterization of sulfated TiO₂ prepared by the sol-gel method and its catalytic activity in the *n*-hexane isomerization reaction (Noda, L.K. (225) 39)
The effect of Y-zeolite acidity on *m*-xylene transformation reactions (Al-Khattaf, S. (225) 117)
Isomerisation of α-pinene over Beta zeolites synthesised by different methods (Gündüz, G. (225) 253)
- Ketones**
The reaction of ketones with benzaldehyde catalyzed by TiCl₄-2THF (Tao, X. (225) 239)
- Lead**
Mechanistic and kinetic studies on glyoxal oxidation with Bi- and Pb-promoted Pd/C catalysts (Alardin, F. (225) 79)
- Mesopores**
Isomerisation of α-pinene over Beta zeolites synthesised by different methods (Gündüz, G. (225) 253)
- Metal nanoclusters size versus support nanoporosity**
Generation of size-controlled gold(0) and palladium(0) nanoclusters inside the nanoporous domains of gel-type functional resins. Part I: Synthetic aspects and first catalytic data in the liquid phase (Corain, B. (225) 189)
- Methane**
Acetic acid synthesis from methane by non-synthesis gas process (Wang, K.X. (225) 65)
- Methanol decomposition**
Effect of rhenium on copper supported on activated carbon catalysts for methanol decomposition (Tsoncheva, T. (225) 245)
- Micronized**
Friedel-Crafts acylation of aromatics and heteroaromatics by beta zeolite (Kantam, M.L. (225) 15)
- Molybdate**
Modified zirconia solid acid catalysts for organic synthesis and transformations (Reddy, B.M. (225) 71)
- Molybdenum oxide**
The oxidative dehydrogenation of propane over potassium-promoted molybdenum oxide/sol-gel zirconia catalysts (Koc, S.N. (225) 197)
- β-Mo₂N_{0.78}**
Dibenzothiophene hydrodesulfurization over alumina-supported β-Mo₂N_{0.78} catalyst (Gong, S. (225) 213)
- Mordenite**
Influence of the ion exchanged metal (Cu, Co, Ni and Mn) on the selective catalytic reduction of NO_x over mordenite and ZSM-5 (De Lucas, A. (225) 47)
- N-Allylamides**
Highly selective isomerization of *N*-allylamides catalyzed by ruthenium and rhodium complexes (Krompiec, S. (225) 91)
- Nanocrystalline**
Chemical and catalytic activity of copper nanoparticles prepared via metal vapor synthesis (Ponce, A.A. (225) 1)
- Nanoporous**
Efficient degradation of dye pollutants on nanoporous polyoxotungstate-anatase composite under visible-light irradiation (Yang, Y. (225) 203)
- Naphthyl amine**
Synthesis, characterization and study of polymeric iron(III) complexes with bidentate *p*-hydroxy Schiff bases as heterogeneous catalysts (Abbo, H.S. (225) 225)
- Ni/CNT**
Controlled growth of Ni particles on carbon nanotubes for fabrication of carbon nanotubes (Liu, H. (225) 233)
- Nickel(II) chloride**
Nickel(II) chloride catalyzed one-pot synthesis of α-aminonitriles (De, S.K. (225) 169)
- Nickel/silica**
C-X bond reactivity in the catalytic hydrodehalogenation of haloarenes over unsupported and silica supported Ni (Murthy, K.V. (225) 149)
- Nitride**
Comparison of bulk CoMo bimetallic carbide, oxide, nitride and sulfide catalysts for pyridine hydrodenitrogenation (Al-Megren, H.A. (225) 143)

Nitrogen oxides

Influence of the ion exchanged metal (Cu, Co, Ni and Mn) on the selective catalytic reduction of NO_x over mordenite and ZSM-5 (De Lucas, A. (225) 47)

NO_x storage

Role of Pt-precursor on the performance of Pt/BaCO₃/Al₂O₃:NO_x storage catalysts (Dawody, J. (225) 259)

Oxidation

Cu precipitate formed during the benzene oxidation catalyzed by supported Cu in the presence of ascorbic acid and O₂ (Takata, K. (225) 125)

Synthesis, characterization and study of polymeric iron(III) complexes with bidentate *p*-hydroxy Schiff bases as heterogeneous catalysts (Abbo, H.S. (225) 225)

Oxidative bromination

Acetic acid synthesis from methane by non-synthesis gas process (Wang, K.X. (225) 65)

Oxidative dehydrogenation

The oxidative dehydrogenation of propane over potassium-promoted molybdenum oxide/sol-gel zirconia catalysts (Koc, S.N. (225) 197)

Oxygen

Cu precipitate formed during the benzene oxidation catalyzed by supported Cu in the presence of ascorbic acid and O₂ (Takata, K. (225) 125)

Selective carbonylation of benzene to benzaldehyde using O₂ as the oxidant in the presence of cobalt complex (Zhao, W.J. (225) 131)

Oxygenation

Synthesis, characterization, and catalytic oxygenation activity of dinuclear iron(III) complex supported by binaphthol-containing chiral ligand (Nagataki, T. (225) 103)

Palladium catalysts

Pillared laponite clays-supported palladium catalysts for the complete oxidation of benzene (Jinjun, L. (225) 173)

Paring reaction

The effect of Y-zeolite acidity on *m*-xylene transformation reactions (Al-Khattaf, S. (225) 117)

Pd⁰ and Au⁰ composites

Generation of size-controlled gold(0) and palladium(0) nanoclusters inside the nanoporous domains of gel-type functional resins. Part I: Synthetic aspects and first catalytic data in the liquid phase (Corain, B. (225) 189)

Pd/Al₂O₃

Palladium-catalysed dehydrogenation of 1-phenylethanol in dense carbon dioxide (Burgener, M. (225) 21)

Pd/C catalysts

Mechanistic and kinetic studies on glyoxal oxidation with Bi- and Pb-promoted Pd/C catalysts (Alardin, F. (225) 79)

Perfluoroarylborate activator

Silica-supported zirconocene/(perfluorophenyl)borate catalyst for propylene polymerization. DRIFTS study of the catalyst formation and surface species (Panchenko, V.N. (225) 271)

Phase-boundary

Transition metal Schiff-base complexes chemically anchored on Y-zeolite: their preparation and catalytic epoxidation of 1-octene in the suspension and phase boundary systems (Mostafa, S.I. (225) 181)

Phenol

Cu precipitate formed during the benzene oxidation catalyzed by supported Cu in the presence of ascorbic acid and O₂ (Takata, K. (225) 125)

Selective alkylation of phenol with *tert*-butyl alcohol catalyzed by Brønsted acidic imidazolium salts (Gui, J. (225) 27)

Synthesis, characterization and study of polymeric iron(III) complexes with bidentate *p*-hydroxy Schiff bases as heterogeneous catalysts (Abbo, H.S. (225) 225)

Photocatalysis

Efficient degradation of dye pollutants on nanoporous polyoxotungstate-anatase composite under visible-light irradiation (Yang, Y. (225) 203)

Pillared clays

Pillared laponite clays-supported palladium catalysts for the complete oxidation of benzene (Jinjun, L. (225) 173)

 α -Pinene

Isomerisation of α -pinene over Beta zeolites synthesised by different methods (Gündüz, G. (225) 253)

Polymethylhydrosiloxane (PMHS)

Enantioselective reduction of acetophenone with PMHS and tin(II) complexes of chiral pyridine ligands (Chelucci, G. (225) 11)

Polyoxometalate

Efficient degradation of dye pollutants on nanoporous polyoxotungstate-anatase composite under visible-light irradiation (Yang, Y. (225) 203)

Polysubstituted cyclopentenone

The reaction of ketones with benzaldehyde catalyzed by TiCl₄·2THF (Tao, X. (225) 239)

Propylene polymerization

Silica-supported zirconocene/(perfluorophenyl)borate catalyst for propylene polymerization. DRIFTS study of the catalyst formation and surface species (Panchenko, V.N. (225) 271)

Pt precursors

Role of Pt-precursor on the performance of Pt/BaCO₃/Al₂O₃:NO_x storage catalysts (Dawody, J. (225) 259)

Pt/TiO₂

Effect of calcination and reduction treatment on the photocatalytic activity of CO oxidation on Pt/TiO₂ (Zhang, M. (225) 59)

Pyridine HDN

Comparison of bulk CoMo bimetallic carbide, oxide, nitride and sulfide catalysts for pyridine hydrodenitrogenation (Al-Megren, H.A. (225) 143)

Reduction

Enantioselective reduction of acetophenone with PMHS and tin(II) complexes of chiral pyridine ligands (Chelucci, G. (225) 11)

Reversal of enantioselectivity

Reversal of enantioselectivity by adding Ti(OⁱPr)₄: novel sulfamide-amine alcohol ligands for the catalytic asymmetric addition of diethylzinc to aldehydes (Mao, J. (225) 33)

Rhenium

Effect of rhenium on copper supported on activated carbon catalysts for methanol decomposition (Tsoncheva, T. (225) 245)

Rhodium complexes

Highly selective isomerization of *N*-allylamides catalyzed by ruthenium and rhodium complexes (Krompiec, S. (225) 91)

Ring opening

Catalytic activity of salenCo(III)OAc complex in the reaction of addition of carboxylic acids to terminal epoxides (Bukowska, A. (225) 7)

Ruthenium complexes

Highly selective isomerization of *N*-allylamides catalyzed by ruthenium and rhodium complexes (Krompiec, S. (225) 91)

Salen cobalt(III) complex

Catalytic activity of salenCo(III)OAc complex in the reaction of addition of carboxylic acids to terminal epoxides (Bukowska, A. (225) 7)

Schiff-base

Transition metal Schiff-base complexes chemically anchored on Y-zeolite: their preparation and catalytic epoxidation of 1-octene in the suspension and phase boundary systems (Mostafa, S.I. (225) 181)

Synthesis, characterization and study of polymeric iron(III) complexes with bidentate *p*-hydroxy Schiff bases as heterogeneous catalysts (Abbo, H.S. (225) 225)

- Selective carbonylation
Selective carbonylation of benzene to benzaldehyde using O₂ as the oxidant in the presence of cobalt complex (Zhao, W.J. (225) 131)
- Selective catalytic reduction
Influence of the ion exchanged metal (Cu, Co, Ni and Mn) on the selective catalytic reduction of NO_x over mordenite and ZSM-5 (De Lucas, A. (225) 47)
- Selective isomerization
Highly selective isomerization of *N*-allylamides catalyzed by ruthenium and rhodium complexes (Krompiec, S. (225) 91)
- Siliceous mesoporous cellular foams
Highly selective isomerization of *N*-allylamides catalyzed by ruthenium and rhodium complexes (Krompiec, S. (225) 91)
- SMAD technique
Chemical and catalytic activity of copper nanoparticles prepared via metal vapor synthesis (Ponce, A.A. (225) 1)
- Sol-gel
The oxidative dehydrogenation of propane over potassium-promoted molybdenum oxide/sol-gel zirconia catalysts (Koc, S.N. (225) 197)
- Solid superacid
Modified zirconia solid acid catalysts for organic synthesis and transformations (Reddy, B.M. (225) 71)
- Sulfamide-amine alcohol
Reversal of enantioselectivity by adding Ti(OⁱPr)₄: novel sulfamide-amine alcohol ligands for the catalytic asymmetric addition of diethyl-zinc to aldehydes (Mao, J. (225) 33)
- Sulfate
Characterization of sulfated TiO₂ prepared by the sol-gel method and its catalytic activity in the *n*-hexane isomerization reaction (Noda, L.K. (225) 39)
Modified zirconia solid acid catalysts for organic synthesis and transformations (Reddy, B.M. (225) 71)
- Sulfide
Comparison of bulk CoMo bimetallic carbide, oxide, nitride and sulfide catalysts for pyridine hydrodenitrogenation (Al-Megren, H.A. (225) 143)
- Supercritical carbon dioxide
Palladium-catalysed dehydrogenation of 1-phenylethanol in dense carbon dioxide (Burgener, M. (225) 21)
- Supported copper catalyst
Cu precipitate formed during the benzene oxidation catalyzed by supported Cu in the presence of ascorbic acid and O₂ (Takata, K. (225) 125)
- Supported zirconocene catalysts
Silica-supported zirconocene/(perfluorophenyl)borate catalyst for propylene polymerization. DRIFTS study of the catalyst formation and surface species (Panchenko, V.N. (225) 271)
- tert*-Butyl alcohol
Selective alkylation of phenol with *tert*-butyl alcohol catalyzed by Brønsted acidic imidazolium salts (Gui, J. (225) 27)
- Tetrahydropyranlylation
Modified zirconia solid acid catalysts for organic synthesis and transformations (Reddy, B.M. (225) 71)
- TiCl₄·2THF
The reaction of ketones with benzaldehyde catalyzed by TiCl₄·2THF (Tao, X. (225) 239)
- Tin
Enantioselective reduction of acetophenone with PMHS and tin(II) complexes of chiral pyridine ligands (Chelucci, G. (225) 11)
- TiO₂
Characterization of sulfated TiO₂ prepared by the sol-gel method and its catalytic activity in the *n*-hexane isomerization reaction (Noda, L.K. (225) 39)
- Titania
The effect of cobalt and zinc precursors on Co (10%)/Zn (*x*%)TiO₂ (*x*=0, 5) Fischer-Tropsch catalysts (Madikizela-Mnqanqeni, N.N. (225) 137)
- Trimethylsilyl cyanide
Nickel(II) chloride catalyzed one-pot synthesis of α -aminonitriles (De, S.K. (225) 169)
- Tungstate
Modified zirconia solid acid catalysts for organic synthesis and transformations (Reddy, B.M. (225) 71)
- Visible-light irradiation
Efficient degradation of dye pollutants on nanoporous polyoxotungstate-anatase composite under visible-light irradiation (Yang, Y. (225) 203)
- VOCs
Pillared laponite clays-supported palladium catalysts for the complete oxidation of benzene (Jinjun, L. (225) 173)
- Water-soluble palladium complex
Pd(II)-biquinoline catalyzed aerobic oxidation of alcohols in water (Buffin, B.P. (225) 111)
- XPS
The effect of cobalt and zinc precursors on Co (10%)/Zn (*x*%)TiO₂ (*x*=0, 5) Fischer-Tropsch catalysts (Madikizela-Mnqanqeni, N.N. (225) 137)
- X-ray photoelectron spectroscopy
Effect of calcination and reduction treatment on the photocatalytic activity of CO oxidation on Pt/TiO₂ (Zhang, M. (225) 59)
- m*-Xylene transformation
The effect of Y-zeolite acidity on *m*-xylene transformation reactions (Al-Khattaf, S. (225) 117)
- Y-zeolite
The effect of Y-zeolite acidity on *m*-xylene transformation reactions (Al-Khattaf, S. (225) 117)
Transition metal Schiff-base complexes chemically anchored on Y-zeolite: their preparation and catalytic epoxidation of 1-octene in the suspension and phase boundary systems (Mostafa, S.I. (225) 181)
- Zeta potential
Role of Pt-precursor on the performance of Pt/BaCO₃/Al₂O₃·NO_x storage catalysts (Dawody, J. (225) 259)
- Zinc
The effect of cobalt and zinc precursors on Co (10%)/Zn (*x*%)TiO₂ (*x*=0, 5) Fischer-Tropsch catalysts (Madikizela-Mnqanqeni, N.N. (225) 137)
- Zirconia
The oxidative dehydrogenation of propane over potassium-promoted molybdenum oxide/sol-gel zirconia catalysts (Koc, S.N. (225) 197)
- Zirconium oxide
Modified zirconia solid acid catalysts for organic synthesis and transformations (Reddy, B.M. (225) 71)
- ZSM-5
Influence of the ion exchanged metal (Cu, Co, Ni and Mn) on the selective catalytic reduction of NO_x over mordenite and ZSM-5 (De Lucas, A. (225) 47)