





Acidity

Solid acid catalysts from clays: Acid leached metakaolin as isopropanol dehydration and 1-butene isomerization catalyst (Perissinotto, M. (121) 103)

Solid acid catalysts from clays: Cumene synthesis by benzene alkylation with propene catalyzed by cation exchanged aluminum pillared clays (Geatti, A. (121) 111)

Acid sites

Contribution of different mechanisms and different active sites to the clay-catalyzed Diels-Alder reactions (Fraile, J.M. (121) 97)

Infrared spectra of $(\eta^6-C_6H_2Me_4)Cr(CO)_3$ adsorbed on silica and silica-alumina (Hunter, G. (121) 81)

Adsorption

Effect of hydrogen reduction on the CO adsorption and methanation reaction over Ru/TiO_2 and Ru/Al_2O_3 catalysts (Londhe, V.P. (121) 33)

Infrared spectra of $(\eta^6-C_6H_2Me_4)Cr(CO)_3$ adsorbed on silica and silica-alumina (Hunter, G. (121) 81)

Aerobic epoxidation

Synthesis, physicochemical studies and aerobic enantioselective epoxidation of non functionalized olefins catalyzed by new Co(II) chiral salen complexes (Kureshy, R.I. (121) 25)

Alkanes

Oxidation of alkanes by *tert*-butyl hydroperoxide catalyzed by polynuclear manganese Schiff base complexes (Tembe, G.L. (121) 17)

Alkylation

Solid acid catalysts from clays: Cumene synthesis by benzene alkylation with propene catalyzed by cation exchanged aluminum pillared clays (Geatti, A. (121) 111)

Alumina

Infrared spectra of $(\eta^6\text{-C}_6\text{H}_2\text{Me}_4)\text{Cr(CO)}_3$ adsorbed on silica and silica-alumina (Hunter, G. (121) 81)

Oxidation of benzoin with anchored vanadyl and molybdenyl catalysts (Bhatia, R.K. (121) 171)

Autoxidation

Autoxidation of limonene, α -pinene and β -pinene by dioxygen catalyzed by $Co(OAc)_2$ /bromide (De Fátima Teixeira Gomes, M. (121) 145)

Benzil

Oxidation of benzoin with anchored vanadyl and molybdenyl catalysts (Bhatia, R.K. (121) 171)

Benzoin

Oxidation of benzoin with anchored vanadyl and molybdenyl catalysts (Bhatia, R.K. (121) 171)

Brønsted acidity

Theoretical studies of CO adsorption on H-ZSM-5 and hydrothermally treated H-ZSM-5 (Brand, H.V. (121) 45)

1-butene

Solid acid catalysts from clays: Acid leached metakaolin as isopropanol dehydration and 1-butene isomerization catalyst (Perissinotto, M. (121) 103)

tert-Butyl hydroperoxide

Oxidation of alkanes by *tert*-butyl hydroperoxide catalyzed by polynuclear manganese Schiff base complexes (Tembe, G.L. (121) 17)

Calcination

Conversion of 2-octanol over nickel-alumina, cobalt-alumina, and alumina catalysts (Chokkaram, S. (121) 157)

Carbamates

Reductive carbonylation of nitrobenzenes catalyzed by a new binuclear rhodium complex (Mizuno, T. (121) 119)

Carbene

Catalytic reactions of methylrhenium trioxide on solid oxide supports (Zhu, Z. (121) 139)

Carbon monoxide

Effect of hydrogen reduction on the CO adsorption and methanation reaction over Ru/TiO₂ and Ru/Al₂O₃ catalysts (Londhe, V.P. (121) 33)

The effect of decomposition atmosphere on the activity and selectivity of the carbonyl cluster derived Co/SiO_2 and Rh/SiO_2 catalysts (Kiviaho, J. (121) 1)

Catalysis

Autoxidation of limonene, α -pinene and β -pinene by dioxygen catalyzed by $Co(OAc)_2$ /bromide (De Fátima Teixeira Gomes, M. (121) 145)

Catalytic reactions of methylrhenium trioxide on solid oxide supports (Zhu, Z. (121) 139)

Catalyst

Supported metalloporphyrins catalyze the oxidation of isobutane by dioxygen (Nenoff, T.M. (121) 123)

Catalyst characterization (XRD/DTA/TGA/TG-MS/BET)
Conversion of 2-octanol over nickel-alumina, cobalt-alumina, and alumina catalysts (Chokkaram, S. (121) 157)

Catalysts

Oxidation of alkanes by *tert*-butyl hydroperoxide catalyzed by polynuclear manganese Schiff base complexes (Tembe, G.L. (121) 17)

Catalytic membrane reactor

A study of catalytic *p*-cyclodextrin carbonate membrane reactor performance in PNPA hydrolysis (Natoli, M. (121) 179)

Chiral Schiff base

Synthesis, physicochemical studies and aerobic enantioselective epoxidation of non functionalized olefins catalyzed by new Co(II) chiral salen complexes (Kureshy, R.I. (121) 25)

Chlorobenzene

Transition metal pillared clay: 3. A para selective catalyst for nitration of chlorobenzene (Mishra, T. (121) 91)

Clays

Contribution of different mechanisms and different active sites to the clay-catalyzed Diels-Alder reactions (Fraile, J.M. (121) 97)

Solid acid catalysts from clays: Acid leached metakaolin as isopropanol dehydration and 1-butene isomerization catalyst (Perissinotto, M. (121) 103)

Cluster

The effect of decomposition atmosphere on the activity and selectivity of the carbonyl cluster derived Co/SiO_2 and Rh/SiO_2 catalysts (Kiviaho, J. (121) 1)

CO adsorption

Theoretical studies of CO adsorption on H-ZSM-5 and hydrothermally treated H-ZSM-5 (Brand, H.V. (121) 45)

Cobal

Synthesis, physicochemical studies and aerobic enantioselective epoxidation of non functionalized olefins catalyzed by new Co(II) chiral salen complexes (Kureshy, R.I. (121) 25)

Cobalt-alumina

Conversion of 2-octanol over nickel-alumina, cobalt-alumina, and alumina catalysts (Chokkaram, S. (121) 157)

Co(II)

Autoxidation of limonene, α -pinene and β -pinene by dioxygen catalyzed by $Co(OAc)_2$ /bromide (De Fátima Teixeira Gomes, M. (121) 145)

Cumene

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β-Cyclodextrin carbonate

A study of catalytic *p*-cyclodextrin carbonate membrane reactor performance in PNPA hydrolysis (Natoli, M. (121) 179)

Dealumination

Theoretical studies of CO adsorption on H-ZSM-5 and hydrothermally treated H-ZSM-5 (Brand, H.V. (121) 45)

Decomposition atmosphere

The effect of decomposition atmosphere on the activity and selectivity of the carbonyl cluster derived Co/SiO₂ and Rh/SiO₂ catalysts (Kiviaho, J. (121) 1)

Dehydration

Conversion of 2-octanol over nickel-alumina, cobalt-alumina, and alumina catalysts (Chokkaram, S. (121) 157)

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Dehydrogenation

Conversion of 2-octanol over nickel-alumina, cobalt-alumina, and alumina catalysts (Chokkaram, S. (121) 157)

DFT

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Diels-Alder

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Dimethyl ether adsorption

In situ FTIR studies of extraframework aluminum bound methoxy species in H-ZSM-5 zeolites (Jiang, X.-Z. (121) 63)

Dioxygen

Autoxidation of limonene, α -pinene and β -pinene by dioxygen catalyzed by $Co(OAc)_2$ /bromide (De Fátima Teixeira Gomes, M. (121) 145)

Palladium(II) catalyzed oxidation of naturally occurring terpenes with dioxygen (Gusevskaya, E. (121) 131)

Durene

Infrared spectra of $(\eta^6-C_6H_2Me_4)Cr(CO)_3$ adsorbed on silica and silica-alumina (Hunter, G. (121) 81)

EHMO calculation

Olefin hydrogenations with hydrido(phosphonite)cobalt(I) under photoirradiation and EHMO calculations for the phosphonite photodissociation process (Onishi, M. (121) 9)

Electron-withdrawing groups

Reductive carbonylation of nitrobenzenes catalyzed by a new binuclear rhodium complex (Mizuno, T. (121) 119)

Enantioselective

Synthesis, physicochemical studies and aerobic enantioselective epoxidation of non functionalized olefins catalyzed by new Co(II) chiral salen complexes (Kureshy, R.I. (121) 25)

Exchanged pillared clays

Solid acid catalysts from clays: Cumene synthesis by benzene alkylation with propene catalyzed by cation exchanged aluminum pillared clays (Geatti, A. (121) 111)

Extraframework aluminium bound methoxy species

In situ FTIR studies of extraframework aluminum bound methoxy species in H-ZSM-5 zeolites (Jiang, X.-Z. (121) 63) Hydridocobalt(I)

Olefin hydrogenations with hydrido(phosphonite)cobalt(I) under photoirradiation and EHMO calculations for the phosphonite photodissociation process (Onishi, M. (121) 9)

Hydrogenation

The effect of decomposition atmosphere on the activity and selectivity of the carbonyl cluster derived Co/SiO₂ and Rh/SiO₂ catalysts (Kiviaho, J. (121) 1)

Hydroxyl frequencies

Theoretical studies of CO adsorption on H-ZSM-5 and hydrothermally treated H-ZSM-5 (Brand, H.V. (121) 45)

In situ FTIR

In situ FTIR studies of extraframework aluminum bound methoxy species in H-ZSM-5 zeolites (Jiang, X.-Z. (121) 63)

IR spectra

Theoretical studies of CO adsorption on H-ZSM-5 and hydrothermally treated H-ZSM-5 (Brand, H.V. (121) 45)

Isobutane

Supported metalloporphyrins catalyze the oxidation of isobutane by dioxygen (Nenoff, T.M. (121) 123)

Isopropyl alcohol

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Kaolin

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Ligand effect

Oxidation of benzoin with anchored vanadyl and molybdenyl catalysts (Bhatia, R.K. (121) 171)

Limonene

Autoxidation of limonene, α -pinene and β -pinene by dioxygen catalyzed by $Co(OAc)_2$ /bromide (De Fátima Teixeira Gomes, M. (121) 145)

Manganese complexes

Oxidation of alkanes by *tert*-butyl hydroperoxide catalyzed by polynuclear manganese Schiff base complexes (Tembe, G.L. (121) 17)

Metakaolin

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Methanation

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Mn(II)

Autoxidation of limonene, α -pinene and β -pinene by dioxygen catalyzed by $Co(OAc)_2$ /bromide (De Fátima Teixeira Gomes, M. (121) 145)

Molybdenum

Oxidation of benzoin with anchored vanadyl and molybdenyl catalysts (Bhatia, R.K. (121) 171)

Monoterpenes

Palladium(II) catalyzed oxidation of naturally occurring terpenes with dioxygen (Gusevskaya, E. (121) 131)

Montmorillonites

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NaBr

Autoxidation of limonene, α -pinene and β -pinene by dioxygen catalyzed by $Co(OAc)_2$ /bromide (De Fátima Teixeira Gomes, M. (121) 145)

Nickel-alumina

Conversion of 2-octanol over nickel-alumina, cobalt-alumina, and alumina catalysts (Chokkaram, S. (121) 157)

Nitration

Transition metal pillared clay: 3. A para selective catalyst for nitration of chlorobenzene (Mishra, T. (121) 91)

Nitrobenzenes

Reductive carbonylation of nitrobenzenes catalyzed by a new binuclear rhodium complex (Mizuno, T. (121) 119)

Non-functionalized olefins

Synthesis, physicochemical studies and aerobic enantioselective epoxidation of non functionalized olefins catalyzed by new Co(II) chiral salen complexes (Kureshy, R.I. (121) 25)

Octanol conversion

Conversion of 2-octanol over nickel-alumina, cobalt-alumina, and alumina catalysts (Chokkaram, S. (121) 157)

Olefin hydrogenation

Olefin hydrogenations with hydrido(phosphonite)cobalt(I) under photoirradiation and EHMO calculations for the phosphonite photodissociation process (Onishi, M. (121) 9)

Olefin oxidation

Palladium(II) catalyzed oxidation of naturally occurring terpenes with dioxygen (Gusevskaya, E. (121) 131)

Oxidation

Catalytic reactions of methylrhenium trioxide on solid oxide supports (Zhu, Z. (121) 139)

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Oxygen

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Palladium catalysts

Palladium(II) catalyzed oxidation of naturally occurring terpenes with dioxygen (Gusevskaya, E. (121) 131)

Peroxid

Catalytic reactions of methylrhenium trioxide on solid oxide supports (Zhu, Z. (121) 139)

o-Phenylene-bis-salicylaldimine complexes

Oxidation of benzoin with anchored vanadyl and molybdenyl catalysts (Bhatia, R.K. (121) 171)

Phosphonite

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Photocatalysis

Olefin hydrogenations with hydrido(phosphonite)cobalt(I) under photoirradiation and EHMO calculations for the phosphonite photodissociation process (Onishi, M. (121) 9)

α-Pinene

Autoxidation of limonene, α -pinene and β -pinene by dioxygen catalyzed by $Co(OAc)_2$ /bromide (De Fátima Teixeira Gomes, M. (121) 145)

β-Pinene

Autoxidation of limonene, α -pinene and β -pinene by dioxygen catalyzed by $Co(OAc)_2$ /bromide (De Fátima Teixeira Gomes, M. (121) 145)

Porphyrin

Supported metalloporphyrins catalyze the oxidation of isobutane by dioxygen (Nenoff, T.M. (121) 123)

Reductive carbonylation

Reductive carbonylation of nitrobenzenes catalyzed by a new binuclear rhodium complex (Mizuno, T. (121) 119)

Rhenium

Catalytic reactions of methylrhenium trioxide on solid oxide supports (Zhu, Z. (121) 139)

Rhodium complex

Reductive carbonylation of nitrobenzenes catalyzed by a new binuclear rhodium complex (Mizuno, T. (121) 119)

Ruthenium/alumina

Effect of hydrogen reduction on the CO adsorption and methanation reaction over Ru/TiO₂ and Ru/Al₂O₃ catalysts (Londhe, V.P. (121) 33)

Ruthenium/titania

Effect of hydrogen reduction on the CO adsorption and methanation reaction over Ru/TiO₂ and Ru/Al₂O₃ catalysts (Londhe, V.P. (121) 33)

Salicylaldoxime complexes

Oxidation of benzoin with anchored vanadyl and molybdenyl catalysts (Bhatia, R.K. (121) 171)

Scaling factors

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Selectivity

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Silica

Infrared spectra of $(\eta^6-C_6H_2Me_4)Cr(CO)_3$ adsorbed on silica and silica—alumina (Hunter, G. (121) 81)

Silica support

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Styrene-divinylbenzene

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Synthesis gas

The effect of decomposition atmosphere on the activity and selectivity of the carbonyl cluster derived Co/SiO_2 and Rh/SiO_2 catalysts (Kiviaho, J. (121) 1)

Tert-butylhydroperoxide

Oxidation of benzoin with anchored vanadyl and molybdenyl catalysts (Bhatia, R.K. (121) 171)

Thenoyl-1,1,1-trifluoroacetylacetone complexes

Oxidation of benzoin with anchored vanadyl and molybdenyl catalysts (Bhatia, R.K. (121) 171)

Theory

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Transition metal pillared clay

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Vanadium

Oxidation of benzoin with anchored vanadyl and molybdenyl catalysts (Bhatia, R.K. (121) 171)

Zeolit

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