

Subject index

Acetophenones

Acetylation and benzylation of various aromatics on sulfated zirconia (Deutsch, J. (207) 51)

Activation energy

Estimation of the activation energies for heterogeneous catalytic processes from thermodynamic and structural considerations (Harinipriya, S. (207) 107)

Acylation

Acetylation and benzylation of various aromatics on sulfated zirconia (Deutsch, J. (207) 51)

Adamantane

Oxidation of adamantane by urea hydroperoxide using vanadium complex anchored onto functionalized Si-MCM-41 (Joseph, T. (207) 131)

Adsorption energy

Theoretical and experimental study of NO/NO₂ adsorption over Co-exchanged type-A zeolite (Henao, J.D. (207) 195)

AlPOs

Ethylation of benzene with ethanol over substituted large pore aluminophosphate-based molecular sieves (Vijayaraghavan, V.R. (207) 41)

Aluminophosphate

Ethylation of benzene with ethanol over substituted large pore aluminophosphate-based molecular sieves (Vijayaraghavan, V.R. (207) 41)

Autoxidation

Bromoanthracenes and metal co-catalysts for the autoxidation of *para*-xylene (Saha, B. (207) 123)

Benzene

Ethylation of benzene with ethanol over substituted large pore aluminophosphate-based molecular sieves (Vijayaraghavan, V.R. (207) 41)

Benzophenones

Acetylation and benzylation of various aromatics on sulfated zirconia (Deutsch, J. (207) 51)

Benzylic oxidation

Oxidation of ethylbenzene over “neat” and zeolite-Y-encapsulated copper tri- and tetraaza macrocyclic complexes (Bennur, T.H. (207) 163)

Boronates

Catalytic borylation of *o*-xylene and heteroarenes via C–H activation (Mertins, K. (207) 21)

Borylation

Catalytic borylation of *o*-xylene and heteroarenes via C–H activation (Mertins, K. (207) 21)

9-Bromoanthracene

Bromoanthracenes and metal co-catalysts for the autoxidation of *para*-xylene (Saha, B. (207) 123)

Brønsted and Lewis acidic centers

Determination of acidic centers on supported Mo₂C catalysts (Óvári, L. (207) 35)

C–H activation

Catalytic borylation of *o*-xylene and heteroarenes via C–H activation (Mertins, K. (207) 21)

Carbonylation

Synthesis of polyesteramides by palladium-catalyzed carbonylation–polycondensation of aromatic diiodides and amino alcohols (Kulkarni, S.M. (207) 97)

Catalysis

Synthesis of polyesteramides by palladium-catalyzed carbonylation–polycondensation of aromatic diiodides and amino alcohols (Kulkarni, S.M. (207) 97)

Catalyst

Preparation and use of novel molybdenum-containing organic complexes as catalysts in the epoxidation of cyclohexene. II. Synthesis and applicability of molybdenum complexes based on squaric acid, 1-phenyl-1-ethanamine and 1,3-diamino-2-propanol (Kotov, S.V. (207) 5)

The oxidative coupling polymerization of 2,6-dimethylphenol catalyzed by a μ -OCH₃-bridged dicopper(II) complex catalyst (Gao, J. (207) 15)

Catalytic function of cross-linked polyvinylamine–Cu(II) complexes for polymerization of methyl methacrylate (Lu, J. (207) 205)

Co-A zeolite

Theoretical and experimental study of NO/NO₂ adsorption over Co-exchanged type-A zeolite (Henao, J.D. (207) 195)

Composite film

Preparation, characterization and photocatalytic property of the PW₁₁O₃₉⁷⁻/TiO₂ composite film towards azo-dye degradation (Li, D. (207) 183)

Congo Red (CR)

Preparation, characterization and photocatalytic property of the PW₁₁O₃₉⁷⁻/TiO₂ composite film towards azo-dye degradation (Li, D. (207) 183)

Copper–oxygen complexes

Oxidation of ethylbenzene over “neat” and zeolite-Y-encapsulated copper tri- and tetraaza macrocyclic complexes (Bennur, T.H. (207) 163)

Covalently anchored vanadium complex

Oxidation of adamantane by urea hydroperoxide using vanadium complex anchored onto functionalized Si-MCM-41 (Joseph, T. (207) 131)

Cu-peraza macrocycles

Oxidation of ethylbenzene over “neat” and zeolite-Y-encapsulated copper tri- and tetraaza macrocyclic complexes (Bennur, T.H. (207) 163)

Cupric ion

Catalytic function of cross-linked polyvinylamine–Cu(II) complexes for polymerization of methyl methacrylate (Lu, J. (207) 205)

Degradation

Preparation, characterization and photocatalytic property of the PW₁₁O₃₉⁷⁻/TiO₂ composite film towards azo-dye degradation (Li, D. (207) 183)

Density functional theory

Density functional theory study of the ethylene epoxidation over Ti-substituted silicalite (TS-1) (Limtrakul, J. (207) 139)

DFT calculations

Theoretical and experimental study of NO/NO₂ adsorption over Co-exchanged type-A zeolite (Henao, J.D. (207) 195)

Dibromoanthracene

Bromoanthracenes and metal co-catalysts for the autoxidation of *para*-xylene (Saha, B. (207) 123)

Dichlorodifluoromethane

Conversion of dichlorodifluoromethane with hydrogen over Pd/AlF₃ and Ru/AlF₃ prepared by sol–gel method (Hina, R.H. (207) 27)

- Diethylbenzene
Ethylation of benzene with ethanol over substituted large pore aluminophosphate-based molecular sieves (Vijayaraghavan, V.R. (207) 41)
- Dimethyl oxalate
Transesterification of dimethyl oxalate with phenol over MoO₃/SiO₂ catalysts (Gong, J. (207) 215)
- Dimethyl sulfide
A high active type of hydroxyapatite for photocatalytic decomposition of dimethyl sulfide under UV irradiation (Nishikawa, H. (207) 149)
- Dinuclear Cu(II) complex
The oxidative coupling polymerization of 2,6-dimethylphenol catalyzed by a μ -OCH₃-bridged dicopper(II) complex catalyst (Gao, J. (207) 15)
- Diphenyl carbonate
Transesterification of dimethyl oxalate with phenol over MoO₃/SiO₂ catalysts (Gong, J. (207) 215)
- Diphenyl oxalate
Transesterification of dimethyl oxalate with phenol over MoO₃/SiO₂ catalysts (Gong, J. (207) 215)
- DRIFT
In situ DRIFT studies of sulfided K-Mo/ γ -Al₂O₃ catalysts (Koizumi, N. (207) 173)
- Epoxidation
Preparation and use of novel molybdenum-containing organic complexes as catalysts in the epoxidation of cyclohexene. II. Synthesis and applicability of molybdenum complexes based on squaric acid, 1-phenyl-1-ethanamine and 1,3-diamino-2-propanol (Kotov, S.V. (207) 5)
- Ethylation
Ethylation of benzene with ethanol over substituted large pore aluminophosphate-based molecular sieves (Vijayaraghavan, V.R. (207) 41)
- Ethylbenzene oxidation
Oxidation of ethylbenzene over "neat" and zeolite-Y-encapsulated copper tri- and tetraaza macrocyclic complexes (Bennur, T.H. (207) 163)
- Ethylbenzene
Ethylation of benzene with ethanol over substituted large pore aluminophosphate-based molecular sieves (Vijayaraghavan, V.R. (207) 41)
- Ethylene epoxidation
Density functional theory study of the ethylene epoxidation over Ti-substituted silicalite (TS-1) (Limtrakul, J. (207) 139)
- Ethylene
Sol-gel iron complex catalysts supported on TiO₂ for ethylene polymerization (Domínguez, A.M. (207) 155)
- Fluorobenzene
Hydrodefluorination of fluorobenzene catalyzed by rhodium metal prepared from [Rh(COD)₂]⁺BF₄⁻ and supported on SiO₂ and Pd-SiO₂ (Stanger, K.J. (207) 59)
- FTIR spectroscopy
Determination of acidic centers on supported Mo₂C catalysts (Óvári, L. (207) 35)
- Functionalized Si-MCM-41
Oxidation of adamantane by urea hydroperoxide using vanadium complex anchored onto functionalized Si-MCM-41 (Joseph, T. (207) 131)
- 1-Hexene
Synthesis, characterization and catalytic activity in the hydroformylation of 1-hexene and styrene of water-soluble rhodium complex [Rh(μ -Pz)(CO)(TPPMS)]₂ (Part 1) (Baricelli, P.J. (207) 83)
- High-pressure CO hydrogenation
In situ DRIFT studies of sulfided K-Mo/ γ -Al₂O₃ catalysts (Koizumi, N. (207) 173)
- Hydro(pyrazolyl)borate
Regioselective hydrogenation of olefinic or carbonyl functional group of α,β -unsaturated substrates by iridium cycloocta-1,5-diene precursor stabilized with hydro(pyrazolyl)borate ligands (López-Linares, F. (207) 117)
- Hydrodefluorination
Hydrodefluorination of fluorobenzene catalyzed by rhodium metal prepared from [Rh(COD)₂]⁺BF₄⁻ and supported on SiO₂ and Pd-SiO₂ (Stanger, K.J. (207) 59)
- Hydroformylation
Synthesis, characterization and catalytic activity in the hydroformylation of 1-hexene and styrene of water-soluble rhodium complex [Rh(μ -Pz)(CO)(TPPMS)]₂ (Part 1) (Baricelli, P.J. (207) 83)
- Hydrogen
Conversion of dichlorodifluoromethane with hydrogen over Pd/AlF₃ and Ru/AlF₃ prepared by sol-gel method (Hina, R.H. (207) 27)
- Hydrogenation
Regioselective hydrogenation of olefinic or carbonyl functional group of α,β -unsaturated substrates by iridium cycloocta-1,5-diene precursor stabilized with hydro(pyrazolyl)borate ligands (López-Linares, F. (207) 117)
- Hydroxyapatite
A high active type of hydroxyapatite for photocatalytic decomposition of dimethyl sulfide under UV irradiation (Nishikawa, H. (207) 149)
- Immobilized metal catalysts
Hydrodefluorination of fluorobenzene catalyzed by rhodium metal prepared from [Rh(COD)₂]⁺BF₄⁻ and supported on SiO₂ and Pd-SiO₂ (Stanger, K.J. (207) 59)
- Iridium
Catalytic borylation of *o*-xylene and heteroarenes via C-H activation (Mertins, K. (207) 21)
- Iron
Sol-gel iron complex catalysts supported on TiO₂ for ethylene polymerization (Domínguez, A.M. (207) 155)
Regioselective hydrogenation of olefinic or carbonyl functional group of α,β -unsaturated substrates by iridium cycloocta-1,5-diene precursor stabilized with hydro(pyrazolyl)borate ligands (López-Linares, F. (207) 117)
- Methane aromatization
Determination of acidic centers on supported Mo₂C catalysts (Óvári, L. (207) 35)
- Methyl phenyl oxalate
Transesterification of dimethyl oxalate with phenol over MoO₃/SiO₂ catalysts (Gong, J. (207) 215)
- Methyl vinyl ketone
Selective synthesis of vinyl ketone over SnO₂ nanoparticle catalysts doped with rare earths (Carreño, N.L.V. (207) 91)
- Molecular sieves
Ethylation of benzene with ethanol over substituted large pore aluminophosphate-based molecular sieves (Vijayaraghavan, V.R. (207) 41)
- Molybdenum carbide
Determination of acidic centers on supported Mo₂C catalysts (Óvári, L. (207) 35)
- Molybdenum-containing complexes
Preparation and use of novel molybdenum-containing organic complexes as catalysts in the epoxidation of cyclohexene. II. Synthesis and applicability of molybdenum complexes based on squaric acid, 1-phenyl-1-ethanamine and 1,3-diamino-2-propanol (Kotov, S.V. (207) 5)
- MoO₃/SiO₂
Transesterification of dimethyl oxalate with phenol over MoO₃/SiO₂ catalysts (Gong, J. (207) 215)
- Nanoparticle
Selective synthesis of vinyl ketone over SnO₂ nanoparticle catalysts doped with rare earths (Carreño, N.L.V. (207) 91)
- NO and syngas adsorption
In situ DRIFT studies of sulfided K-Mo/ γ -Al₂O₃ catalysts (Koizumi, N. (207) 173)
- No_x
Theoretical and experimental study of NO/NO₂ adsorption over Co-exchanged type-A zeolite (Henao, J.D. (207) 195)

Oxidation

Oxidation of adamantane by urea hydroperoxide using vanadium complex anchored onto functionalized Si-MCM-41 (Joseph, T. (207) 131)

Oxidative coupling reaction

The oxidative coupling polymerization of 2,6-dimethylphenol catalyzed by a μ -OCH₃-bridged dicopper(II) complex catalyst (Gao, J. (207) 15)

Oxygen radical

A high active type of hydroxyapatite for photocatalytic decomposition of dimethyl sulfide under UV irradiation (Nishikawa, H. (207) 149)

Palladium

Hydrodefluorination of fluorobenzene catalyzed by rhodium metal prepared from [Rh(COD)₂]⁺BF₄⁻ and supported on SiO₂ and Pd-SiO₂ (Stanger, K.J. (207) 59)

Synthesis of polyesteramides by palladium-catalyzed carbonylation-polycondensation of aromatic diiodides and amino alcohols (Kulkarni, S.M. (207) 97)

para-Xylene

Bromoanthracenes and metal co-catalysts for the autoxidation of *para*-xylene (Saha, B. (207) 123)

Pd/AlF₃

Conversion of dichlorodifluoromethane with hydrogen over Pd/AlF₃ and Ru/AlF₃ prepared by sol-gel method (Hina, R.H. (207) 27)

Photocatalysis

Preparation, characterization and photocatalytic property of the PW₁₁O₃₉⁷⁻/TiO₂ composite film towards azo-dye degradation (Li, D. (207) 183)

Photocatalytic decomposition

A high active type of hydroxyapatite for photocatalytic decomposition of dimethyl sulfide under UV irradiation (Nishikawa, H. (207) 149)

PMC

Catalytic function of cross-linked polyvinylamine-Cu(II) complexes for polymerization of methyl methacrylate (Lu, J. (207) 205)

Polycondensation

Synthesis of polyesteramides by palladium-catalyzed carbonylation-polycondensation of aromatic diiodides and amino alcohols (Kulkarni, S.M. (207) 97)

Polycrystalline metals

Estimation of the activation energies for heterogeneous catalytic processes from thermodynamic and structural considerations (Harinipriya, S. (207) 107)

Polyesteramides

Synthesis of polyesteramides by palladium-catalyzed carbonylation-polycondensation of aromatic diiodides and amino alcohols (Kulkarni, S.M. (207) 97)

Polymerization

The oxidative coupling polymerization of 2,6-dimethylphenol catalyzed by a μ -OCH₃-bridged dicopper(II) complex catalyst (Gao, J. (207) 15)

Synthesis of polyesteramides by palladium-catalyzed carbonylation-polycondensation of aromatic diiodides and amino alcohols (Kulkarni, S.M. (207) 97)

Sol-gel iron complex catalysts supported on TiO₂ for ethylene polymerization (Domínguez, A.M. (207) 155)

Polyoxometalate (POM)

Preparation, characterization and photocatalytic property of the PW₁₁O₃₉⁷⁻/TiO₂ composite film towards azo-dye degradation (Li, D. (207) 183)

Polyvinylamine

Catalytic function of cross-linked polyvinylamine-Cu(II) complexes for polymerization of methyl methacrylate (Lu, J. (207) 205)

PPE

The oxidative coupling polymerization of 2,6-dimethylphenol catalyzed by a μ -OCH₃-bridged dicopper(II) complex catalyst (Gao, J. (207) 15)

Pyridine and CO adsorption

Determination of acidic centers on supported Mo₂C catalysts (Óvári, L. (207) 35)

Radical polymerization

Catalytic function of cross-linked polyvinylamine-Cu(II) complexes for polymerization of methyl methacrylate (Lu, J. (207) 205)

Rare earth

Selective synthesis of vinyl ketone over SnO₂ nanoparticle catalysts doped with rare earths (Carreño, N.L.V. (207) 91)

Rhodium complexes

Synthesis, characterization and catalytic activity in the hydroformylation of 1-hexene and styrene of water-soluble rhodium complex [Rh(μ -Pz)(CO)(TPPMS)]₂ (Part 1) (Baricelli, P.J. (207) 83)

Rhodium

Catalytic borylation of *o*-xylene and heteroarenes via C-H activation (Mertins, K. (207) 21)

Rhodium

Hydrodefluorination of fluorobenzene catalyzed by rhodium metal prepared from [Rh(COD)₂]⁺BF₄⁻ and supported on SiO₂ and Pd-SiO₂ (Stanger, K.J. (207) 59)

Ring hydroxylation

Oxidation of ethylbenzene over "neat" and zeolite-Y-encapsulated copper tri- and tetraaza macrocyclic complexes (Bennur, T.H. (207) 161)

Ru/AlF₃

Conversion of dichlorodifluoromethane with hydrogen over Pd/AlF₃ and Ru/AlF₃ prepared by sol-gel method (Hina, R.H. (207) 27)

Silica

Hydrodefluorination of fluorobenzene catalyzed by rhodium metal prepared from [Rh(COD)₂]⁺BF₄⁻ and supported on SiO₂ and Pd-SiO₂ (Stanger, K.J. (207) 59)

Sol-gel

Conversion of dichlorodifluoromethane with hydrogen over Pd/AlF₃ and Ru/AlF₃ prepared by sol-gel method (Hina, R.H. (207) 27)

Sol-gel iron complex catalysts supported on TiO₂ for ethylene polymerization (Domínguez, A.M. (207) 155)

Preparation, characterization and photocatalytic property of the PW₁₁O₃₉⁷⁻/TiO₂ composite film towards azo-dye degradation (Li, D. (207) 183)

Solid acids

Acetylation and benzylation of various aromatics on sulfated zirconia (Deutsch, J. (207) 51)

Squaric acid

Preparation and use of novel molybdenum-containing organic complexes as catalysts in the epoxidation of cyclohexene. II. Synthesis and applicability of molybdenum complexes based on squaric acid, 1-phenyl-1-ethanamine and 1,3-diamino-2-propanol (Kotov, S.V. (207) 5)

Styrene

Synthesis, characterization and catalytic activity in the hydroformylation of 1-hexene and styrene of water-soluble rhodium complex [Rh(μ -Pz)(CO)(TPPMS)]₂ (Part 1) (Baricelli, P.J. (207) 83)

Sulfated zirconia

Acetylation and benzylation of various aromatics on sulfated zirconia (Deutsch, J. (207) 51)

Sulfided K-Mo/ γ -Al₂O₃ catalysts

In situ DRIFT studies of sulfided K-Mo/ γ -Al₂O₃ catalysts (Koizumi, N. (207) 173)

Supported catalyst

Sol-gel iron complex catalysts supported on TiO₂ for ethylene polymerization (Domínguez, A.M. (207) 155)

Terephthalic acid

Bromoanthracenes and metal co-catalysts for the autoxidation of *para*-xylene (Saha, B. (207) 123)

tert-Butyl hydroperoxide oxidation

Oxidation of ethylbenzene over "neat" and zeolite-Y-encapsulated copper tri- and tetraaza macrocyclic complexes (Bennur, T.H. (207) 161)

Thermodynamic considerations

Estimation of the activation energies for heterogeneous catalytic processes from thermodynamic and structural considerations (Harinipriya, S. (207) 107)

Ti-substituted silicalite

Density functional theory study of the ethylene epoxidation over Ti-substituted silicalite (TS-1) (Limtrakul, J. (207) 139)

TiO₂ (anatase)

Preparation, characterization and photocatalytic property of the PW₁₁O₃₉⁷⁻/TiO₂ composite film towards azo-dye degradation (Li, D. (207) 183)

Titania

Sol-gel iron complex catalysts supported on TiO₂ for ethylene polymerization (Domínguez, A.M. (207) 155)

TPD experiments

Theoretical and experimental study of NO/NO₂ adsorption over Co-exchanged type-A zeolite (Henao, J.D. (207) 195)

Transesterification

Transesterification of dimethyl oxalate with phenol over MoO₃/SiO₂ catalysts (Gong, J. (207) 215)

UHP

Oxidation of adamantane by urea hydroperoxide using vanadium complex anchored onto functionalized Si-MCM-41 (Joseph, T. (207) 131)

 α,β -Unsaturated substrates

Regioselective hydrogenation of olefinic or carbonyl functional group of α,β -unsaturated substrates by iridium cycloocta-1,5-diene precursor stabilized with hydro(pyrazolyl)borate ligands (López-Linares, F. (207) 117)

Zeolite-encapsulated complexes

Oxidation of ethylbenzene over “neat” and zeolite-Y-encapsulated copper tri- and tetraaza macrocyclic complexes (Bennur, T.H. (207) 163)