

Subject Index

- α,β -unsaturated ketones
Arylation; Allylic alcohols; Palladium; Copper triflate (Satoh, T. (112) 211)
- Acetals
Zeolites; Resins; Acidity; Hydrolysis (Moreau, C. (112) 133)
- Acetic acid
Methyl formate; Phosphorus pentoxide; Iridium catalyst (Cheong, M. (112) 389)
- Acid–base properties
 SO_2 adsorption; Metal oxides; IR spectroscopy; Catalytic activity (Ziolek, M. (112) 125)
- Acidic cocatalysts
Nitro compounds; Palladium catalyst; Nitrogen ligands; Reductive carbonylation (Wehman, P. (112) 23)
- Acidity
Zeolites; Resins; Hydrolysis; Acetals (Moreau, C. (112) 133)
- Alcohol oxidation
Hydrogen transfer reduction; Silica supported zirconium catalysts; Ketone reduction (Leyrit, P. (112) 395)
- Aldehydes
Rhodium; Carbon monoxide; Formic acid; Regioselectivity; Alkene conversion (El Ali, B. (112) 195)
- Alkene conversion
Rhodium; Carbon monoxide; Formic acid; Regioselectivity; Aldehydes (El Ali, B. (112) 195)
- Alkyl peroxovanadium complex
Catalytic oxidation; Benzyl cyanides; Aroyl cyanides; Peroxo benzyl cyanides (Choudary, B.M. (112) 385)
- Allyl alcohol
Isomerization; Hydrogenation; Amorphous alloy; Copper–zirconium; Copper; Propanal; 1-propanol; Selectivity (Martinek, T. (112) 85)
- π -Allyl hydride intermediate
Isomerization; Metathesis; Tungsten; Bis(alkene) complexes (Szymańska-Buzar, T. (112) 203)
- Allylic alcohols
Arylation; α,β -unsaturated ketones; Palladium; Copper triflate (Satoh, T. (112) 211)
- Aluminium catalysts
Ethoxylation; Fatty alcohols (Di Serio, M. (112) 235)
- Amorphous alloy
Isomerization; Hydrogenation; Allyl alcohol; Copper–zirconium; Copper; Propanal; 1-propanol; Selectivity (Martinek, T. (112) 85)
- Anchored complexes
 ^{13}C NMR; Cobalt; Ethylene; Hydroformylation; Mechanism; Palladium; Phosphinated silica (Moroz, B.L. (112) 217)
- Aroyl cyanides
Alkyl peroxovanadium complex; Catalytic oxidation; Benzyl cyanides; Peroxo benzyl cyanides (Choudary, B.M. (112) 385)
- Arylation
Allylic alcohols; α,β -unsaturated ketones; Palladium; Copper triflate (Satoh, T. (112) 211)
- Asymmetric hydrogenation
Diamine ligands; Cyclodextrin (Pinel, C. (112) L157)
- Benzyl cyanides
Alkyl peroxovanadium complex; Catalytic oxidation; Aroyl cyanides; Peroxo benzyl cyanides (Choudary, B.M. (112) 385)
- Bifunctional catalysis
Reaction mechanism; Hydrogen spillover; Cyclohexane conversion (Roessner, F. (112) 401)
- Bis(alkene) complexes
 π -Allyl hydride intermediate; Isomerization; Metathesis; Tungsten (Szymańska-Buzar, T. (112) 203)
- Boron
Silica; Propene; Hydroformylation; Rhodium; Cobalt (Storaro, L. (112) 43)
- Calcium oxide
Water; Hydroxyl group stretching frequencies; MINDO/3 study (Zhanpeisov, N.U. (112) 63)
- Calorimetry
Heat of adsorption; Heat of oxidation; Enthalpy of PdO formation; Phenomena of oxidation (Ho, Y.-S. (112) 287)
- Carbon dioxide hydrogenation
Formic acid; Ruthenium chloride; Ruthenium complexes (Zhang, J.Z. (112) 9)
- Carbon monoxide
Rhodium; Formic acid; Regioselectivity; Alkene conversion; Aldehydes (El Ali, B. (112) 195)
- Carbonyl
Hydroformylation; Cobalt; Functionalized phosphine; Catalysis; Homogeneous; Olefin (Rosi, L. (112) 367)
- Carene isomerization
 Ni/SiO_2 catalyst; Tetra-*n*-butyl tin modified catalyst; Surface organometallic chemistry (Lesage, P. (112) 303)
- Catalysis
Hydroformylation; Cobalt; Carbonyl; Functionalized phosphine; Homogeneous; Olefin (Rosi, L. (112) 367)
- Catalyst
Lanthanoide; Glucose; Furfural (Ishida, H. (112) L163)
- Catalyst support characterization
Size exclusion chromatography; Pumice; Metal supported catalyst; Surface (Duca, D. (112) 413)
- Catalytic activity
Acid–base properties; SO_2 adsorption; Metal oxides; IR spectroscopy (Ziolek, M. (112) 125)
- Catalytic debenzylation
Pd/C: Chemoselectivity; Kinetic analysis; Influence of reaction parameters (Studer, M. (112) 437)

- Catalytic mechanism
 Electrocatalytic CO₂ reduction; Cobalt octabutoxyphthalocyanine; Potential-step chronoamperoscopy (PSCAS) (Abe, T. (112) 55)
- Catalytic oxidation
 Alkyl peroxovanadium complex; Benzyl cyanides; Aroyl cyanides; Peroxo benzyl cyanides (Choudary, B.M. (112) 385)
- Chemoselectivity
 Catalytic debenzylation; Pd/C; Kinetic analysis; Influence of reaction parameters (Studer, M. (112) 437)
- Cinchona alkaloid modifiers
 Enantioselective hydrogenation; Pyruvate hydrogenation (Augustine, R.L. (112) 93)
- Cinnamaldehyde
 Pt/Co bimetallic colloid; Selective hydrogenation (Yu, W. (112) 105)
¹³C NMR
 Anchored complexes; Cobalt; Ethylene; Hydroformylation; Mechanism; Palladium; Phosphinated silica (Moroz, B.L. (112) 217)
- Cobalt
 Silica; Propene; Hydroformylation; Rhodium; Boron (Storaro, L. (112) 43)
 Anchored complexes; ¹³C NMR; Ethylene; Hydroformylation; Mechanism; Palladium; Phosphinated silica (Moroz, B.L. (112) 217)
 Hydroformylation; Carbonyl; Functionalized phosphine; Catalysis; Homogeneous; Olefin (Rosi, L. (112) 367)
- Cobalt octabutoxyphthalocyanine
 Electrocatalytic CO₂ reduction; Catalytic mechanism; Potential-step chronoamperoscopy (PSCAS) (Abe, T. (112) 55)
- CO hydrogenation
 Oxide catalysts; Isobutene formation; ¹³C tracer study (Maruya, K.-i. (112) 143)
- Coordination state
 EPR; SiO₂; Mo⁵⁺ ions; Phosphines; Molecular probes (Sojka, Z. (112) 469)
- Copper
 Isomerization; Hydrogenation; Allyl alcohol; Amorphous alloy; Copper-zirconium; Propanal; 1-propanol; Selectivity (Martinek, T. (112) 85)
 NO reduction; Environment; Hydrocarbon oxidation; Surface characterization (Lu, H. (112) 447)
 Nitric oxide reduction; Sulfur dioxide; Isobutene; X-ray photoelectron spectroscopy; Environment (Lu, H. (112) 459)
- Copper triflate
 Arylation; Allylic alcohols; α,β -unsaturated ketones; Palladium (Satoh, T. (112) 211)
- Copper-zirconium
 Isomerization; Hydrogenation; Allyl alcohol; Amorphous alloy; Copper; Propanal; 1-propanol; Selectivity (Martinek, T. (112) 85)
 Cosalen
 Phenol; Oxidation; EPR study (Bolzacchini, E. (112) 347)
¹³C tracer study
- CO hydrogenation; Oxide catalysts; Isobutene formation (Maruya, K.-i. (112) 143)
- Cumene cracking
 Heteropolyacid; Keggin unit; Polymer; Polyaniline; XPS (Dziembaj, R. (112) 423)
- Cyclodextrin
 Asymmetric hydrogenation; Diamine ligands (Pinel, C. (112) L157)
- Cyclohexane
 Ferric peroxy complexes; EPR; NMR; Oxidation (Sobolev, A.P. (112) 253)
- Cyclohexane conversion
 Bifunctional catalysis; Reaction mechanism; Hydrogen spillover (Roessner, F. (112) 401)
- Dehydrogenation
 R-(+)-limonene; Paracyclopene; Pd/SiO₂; Hydrogen transfer reaction (Lesage, P. (112) 431)
- Diamine ligands
 Asymmetric hydrogenation; Cyclodextrin (Pinel, C. (112) L157)
- 2,6-dimethylphenol oxidation
 Dinuclear Cu(II)dihydroxo complexes; Homogeneous catalysis; Polyphenylene ether (Camus, A. (112) 353)
- Dinuclear Cu(II)dihydroxo complexes
 2,6-dimethylphenol oxidation; Homogeneous catalysis; Polyphenylene ether (Camus, A. (112) 353)
- Electrocatalytic CO₂ reduction
 Cobalt octabutoxyphthalocyanine; Catalytic mechanism; Potential-step chronoamperoscopy (PSCAS) (Abe, T. (112) 55)
- Enantioselective hydrogenation
 Pyruvate hydrogenation; Cinchona alkaloid modifiers (Augustine, R.L. (112) 93)
- Enthalpy of PdO formation
 Calorimetry; Heat of adsorption; Heat of oxidation; Phenomena of oxidation (Ho, Y.-S. (112) 287)
- Environment
 NO reduction; Copper; Hydrocarbon oxidation; Surface characterization (Lu, H. (112) 447)
- Nitric oxide reduction; Sulfur dioxide; Copper; Isobutene; X-ray photoelectron spectroscopy (Lu, H. (112) 459)
- Epoxidation
 Titanium silica; TBHP; Non-activated alkenes (Cativiela, C. (112) 259)
- EPR
 Ferric peroxy complexes; NMR; Oxidation; Cyclohexane (Sobolev, A.P. (112) 253)
- Coordination state; SiO₂; Mo⁵⁺ ions; Phosphines; Molecular probes (Sojka, Z. (112) 469)
- EPR study
 Cosalen; Phenol; Oxidation (Bolzacchini, E. (112) 347)
- Ethene hydrocarboxylation
 Propanoic acid; Rhodium iodide (Kilner, M. (112) 327)
- Ethoxylation
 Fatty alcohols; Aluminium catalysts (Di Serio, M. (112) 235)
- Ethylene
 Anchored complexes; ¹³C NMR; Cobalt; Hydroformylation; Mechanism; Palladium; Phosphinated silica (Moroz, B.L. (112) 217)
- Fatty alcohols
 Ethoxylation; Aluminium catalysts (Di Serio, M. (112) 235)
- Fenton reactions
 Oxidation; Sulphur; Photocatalysis; Iron; Peroxide (Ansari, A. (112) 269)

- Ferric peroxy complexes
EPR; NMR; Oxidation; Cyclohexane (Sobolev, A.P. (112) 253)
- Formic acid
Carbon dioxide hydrogenation; Ruthenium chloride; Ruthenium complexes (Zhang, J.Z. (112) 9)
- Rhodium; Carbon monoxide; Regioselectivity; Alkene conversion; Aldehydes (El Ali, B. (112) 195)
- Functionalized phosphine
Hydroformylation; Cobalt; Carbonyl; Catalysis; Homogeneous; Olefin (Rosi, L. (112) 367)
- Furfural
Lanthanoide; Catalyst; Glucose (Ishida, H. (112) L163)
- Glucose
Lanthanoide; Catalyst; Furfural (Ishida, H. (112) L163)
- Graphic plot
TPR; TPD; Platinum oxide (Hwang, C.-P. (112) 295)
- Heat of adsorption
Calorimetry; Heat of oxidation; Enthalpy of PdO formation; Phenomena of oxidation (Ho, Y.-S. (112) 287)
- Heat of oxidation
Calorimetry; Heat of adsorption; Enthalpy of PdO formation; Phenomena of oxidation (Ho, Y.-S. (112) 287)
- Heteropolyacid
Keggin unit; Polymer; Polyaniline; Cumene cracking; XPS (Dziembaj, R. (112) 423)
- Histidine-containing resin
Hydrolysis; *p*-Nitrophenyl acetate (Hung, W.-H. (112) 1)
- Homogeneous
Hydroformylation; Cobalt; Carbonyl; Functionalized phosphine; Catalysis; Olefin (Rosi, L. (112) 367)
- Homogeneous catalysis
2,6-dimethylphenol oxidation; Dinuclear Cu(II)dihydroxo complexes; Polyphenylene ether (Camus, A. (112) 353)
- Hydrocarbon oxidation
NO reduction; Copper; Environment; Surface characterization (Lu, H. (112) 447)
- Hydroformylation
Silica; Propene; Rhodium; Cobalt; Boron (Storaro, L. (112) 43)
- Anchored complexes; ¹³C NMR; Cobalt; Ethylene; Mechanism; Palladium; Phosphinated silica (Moroz, B.L. (112) 217)
- Cobalt; Carbonyl; Functionalized phosphine; Catalysis; Homogeneous; Olefin (Rosi, L. (112) 367)
- Hydrogenation
Isomerization; Allyl alcohol; Amorphous alloy; Copper-zirconium; Copper; Propanal; 1-propanol; Selectivity (Martinek, T. (112) 85)
- Hydrogen spillover
Bifunctional catalysis; Reaction mechanism; Cyclohexane conversion (Roessner, F. (112) 401)
- Hydrogen transfer reaction
R-(+)-limonene; Dehydrogenation; Paracycmenes; Pd/SiO₂ (Lesage, P. (112) 431)
- Hydrogen transfer reduction
Silica supported zirconium catalysts; Alcohol oxidation; Ketone reduction (Leyrit, P. (112) 395)
- Hydrolysis
Histidine-containing resin; *p*-Nitrophenyl acetate (Hung, W.-H. (112) 1)
- Zeolites; Resins; Acidity; Acetals (Moreau, C. (112) 133)
- Hydrosilylating properties
Platinum/alumina; Solvent effects; Temperature effects (Fort, Y. (112) 311)
- Hydroxyl group stretching frequencies
Calcium oxide; Water; MINDO/3 study (Zhanpeisov, N.U. (112) 63)
- Influence of reaction parameters
Catalytic debenzylation; Pd/C; Chemoselectivity; Kinetic analysis (Studer, M. (112) 437)
- Iridium catalyst
Methyl formate; Acetic acid; Phosphorus pentoxide (Cheong, M. (112) 389)
- Iron
Oxidation; Sulphur; Fenton reactions; Photocatalysis; Peroxide (Ansari, A. (112) 269)
- Iron(II)-1,10-phenanthroline
Phenol hydroxylation; Radical substitution (Liu, C. (112) 15)
- IR spectroscopy
SCR reaction; Vanadia monolayer; Transient response technique (Pinneva, L.G. (112) 115)
- Acid-base properties; SO₂ adsorption; Metal oxides; Catalytic activity (Ziolek, M. (112) 125)
- Isobutene
Nitric oxide reduction; Sulfur dioxide; Copper; X-ray photoelectron spectroscopy; Environment (Lu, H. (112) 459)
- Isobutene formation*
CO hydrogenation; Oxide catalysts; ¹³C tracer study (Maruya, K.-i. (112) 143)
- Isomerization
Hydrogenation; Allyl alcohol; Amorphous alloy; Copper-zirconium; Copper; Propanal; 1-propanol; Selectivity (Martinek, T. (112) 85)
- π -Allyl hydride intermediate; Metathesis; Tungsten; Bis(alkene) complexes (Szymbańska-Buzar, T. (112) 203)
- Wacker; Oxidation; Stereochemistry; Modified catalyst; Palladium(II) (Francis, J.W. (112) 317)
- Keggin unit
Heteropolyacid; Polymer; Polyaniline; Cumene cracking; XPS (Dziembaj, R. (112) 423)
- Ketone reduction
Hydrogen transfer reduction; Silica supported zirconium catalysts; Alcohol oxidation (Leyrit, P. (112) 395)
- Kinetic analysis
Catalytic debenzylation; Pd/C; Chemoselectivity; Influence of reaction parameters (Studer, M. (112) 437)
- Lanthanoide
Catalyst; Glucose; Furfural (Ishida, H. (112) L163)
- Mechanism
Anchored complexes; ¹³C NMR; Cobalt; Ethylene; Hydroformylation; Palladium; Phosphinated silica (Moroz, B.L. (112) 217)
- Metallocenes
Stability; Photoconversion; Olefin polymerization (Kaminsky, W. (112) 37)
- Metal oxides
Acid-base properties; SO₂ adsorption; IR spectroscopy; Catalytic activity (Ziolek, M. (112) 125)
- Metal supported catalyst
Size exclusion chromatography; Catalyst support characterization; Pumice; Surface (Duca, D. (112) 413)

Metathesis

π -Allyl hydride intermediate; Isomerization; Tungsten; Bis(alkene) complexes (Szymańska-Buzar, T. (112) 203)

Methyl formate

Acetic acid; Phosphorus pentoxide; Iridium catalyst (Cheong, M. (112) 389)

MINDO/3 study

Calcium oxide; Water; Hydroxyl group stretching frequencies (Zhanpeisov, N.U. (112) 63)

Modified catalyst

Wacker; Isomerization; Oxidation; Stereochemistry; Palladium(II) (Francis, J.W. (112) 317)

 Mo^{5+} ions

EPR; Coordination state; SiO_2 ; Phosphines; Molecular probes (Sojka, Z. (112) 469)

Molecular probes

EPR; Coordination state; SiO_2 ; Mo^{5+} ions; Phosphines (Sojka, Z. (112) 469)

 Ni/SiO_2 catalyst

Carene isomerization; Tetra-*n*-butyl tin modified catalyst; Surface organometallic chemistry (Lesage, P. (112) 303)

Nitric oxide reduction

Sulfur dioxide; Copper; Isobutene; X-ray photoelectron spectroscopy; Environment (Lu, H. (112) 459)

Nitro compounds

Acidic cocatalysts; Palladium catalyst; Nitrogen ligands; Reductive carbonylation (Wehman, P. (112) 23)

Nitrogen ligands

Acidic cocatalysts; Nitro compounds; Palladium catalyst; Reductive carbonylation (Wehman, P. (112) 23)

p-Nitrophenyl acetate

Histidine-containing resin; Hydrolysis (Hung, W.-H. (112) 1)

NMR

Ferric peroxy complexes; EPR; Oxidation; Cyclohexane (Sobolev, A.P. (112) 253)

Non-activated alkenes

Epoxidation; Titanium silica; TBHP (Cativiela, C. (112) 259)

NO reduction

Copper; Environment; Hydrocarbon oxidation; Surface characterization (Lu, H. (112) 447)

Olefin

Hydroformylation; Cobalt; Carbonyl; Functionalized phosphine; Catalysis; Homogeneous (Rosi, L. (112) 367)

Olefin polymerization

Metallocenes; Stability; Photoconversion (Kaminsky, W. (112) 37)

Oxidation

Ferric peroxy complexes; EPR; NMR; Cyclohexane (Sobolev, A.P. (112) 253)

Sulphur; Fenton reactions; Photocatalysis; Iron; Peroxide (Ansari, A. (112) 269)

Wacker; Isomerization; Stereochemistry; Modified catalyst; Palladium(II) (Francis, J.W. (112) 317)

Cosalen; Phenol; EPR study (Bolzacchini, E. (112) 347)

Oxide catalysts

CO hydrogenation; Isobutene formation; ^{13}C tracer study (Maruya, K.-i. (112) 143)

Palladium

Arylation; Allylic alcohols; α,β -unsaturated ketones; Copper triflate (Satoh, T. (112) 211)

Anchored complexes; ^{13}C NMR; Cobalt; Ethylene; Hydroformylation; Mechanism; Phosphinated silica (Moroz, B.L. (112) 217)

Palladium catalyst

Acidic cocatalysts; Nitro compounds; Nitrogen ligands; Reductive carbonylation (Wehman, P. (112) 23)

Paracycmenes

R(+)-limonene; Dehydrogenation; Pd/SiO_2 ; Hydrogen transfer reaction (Lesage, P. (112) 431)

 Pd/SiO_2

R(+)-limonene; Dehydrogenation; Paracycmenes; Hydrogen transfer reaction (Lesage, P. (112) 431)

Peroxide

Oxidation; Sulphur; Fenton reactions; Photocatalysis; Iron (Ansari, A. (112) 269)

Peroxo benzyl cyanides

Alkyl peroxyvanadium complex; Catalytic oxidation; Benzyl cyanides; Aroyl cyanides (Choudary, B.M. (112) 385)

Phenol

Cosalen; Oxidation; EPR study (Bolzacchini, E. (112) 347)

Phenol hydroxylation

Iron(II)-1,10-phenanthroline; Radical substitution (Liu, C. (112) 15)

Phenomena of oxidation

Calorimetry; Heat of adsorption; Heat of oxidation; Enthalpy of PdO formation (Ho, Y.-S. (112) 287)

Phosphinated silica

Anchored complexes; ^{13}C NMR; Cobalt; Ethylene; Hydroformylation; Mechanism; Palladium (Moroz, B.L. (112) 217)

Phosphines

EPR; Coordination state; SiO_2 ; Mo^{5+} ions; Molecular probes (Sojka, Z. (112) 469)

Phosphorus pentoxide

Methyl formate; Acetic acid; Iridium catalyst (Cheong, M. (112) 389)

Photocatalysis

Oxidation; Sulphur; Fenton reactions; Iron; Peroxide (Ansari, A. (112) 269)

Photoconversion

Metallocenes; Stability; Olefin polymerization (Kaminsky, W. (112) 37)

Platinum/alumina

Hydrosilylating properties; Solvent effects; Temperature effects (Fort, Y. (112) 311)

Platinum oxide

TPR; TPD; Graphic plot (Hwang, C.-P. (112) 295)

Polyaniline

Heteropolyacid; Keggin unit; Polymer; Cumene cracking; XPS (Dziembaj, R. (112) 423)

Polymer

Heteropolyacid; Keggin unit; Polyaniline; Cumene cracking; XPS (Dziembaj, R. (112) 423)

Polyphenylene ether

2,6-dimethylphenol oxidation; Dinuclear Cu(II)dihydroxo complexes; Homogeneous catalysis (Camus, A. (112) 353)

Propanal

Isomerization; Hydrogenation; Allyl alcohol; Amorphous alloy; Copper-zirconium; Copper; 1-propanol; Selectivity (Martinek, T. (112) 85)

Propanoic acid

Ethene hydrocarboxylation; Rhodium iodide (Kilner, M. (112) 327)

- 1-propanol
Isomerization; Hydrogenation; Allyl alcohol; Amorphous alloy; Copper-zirconium; Copper; Propanal; Selectivity (Martinek, T. (112) 85)
- Propene
Silica; Hydroformylation; Rhodium; Cobalt; Boron (Storaro, L. (112) 43)
- Pt/Co bimetallic colloid
Selective hydrogenation; Cinnamaldehyde (Yu, W. (112) 105)
- Pumice
Size exclusion chromatography; Catalyst support characterization; Metal supported catalyst; Surface (Duca, D. (112) 413)
- Pyruvate hydrogenation
Enantioselective hydrogenation; Cinchona alkaloid modifiers (Augustine, R.L. (112) 93)
- Radical substitution
Phenol hydroxylation; Iron(II)-1,10-phenanthroline (Liu, C. (112) 15)
- Reaction mechanism
Bifunctional catalysis; Hydrogen spillover; Cyclohexane conversion (Roessner, F. (112) 401)
- Reductive carbonylation
Acidic cocatalysts; Nitro compounds; Palladium catalyst; Nitrogen ligands (Wehman, P. (112) 23)
- Regeneration and dissociation of $\text{RhCo}_3(\text{CO})_{12}$
 SiO_2 -physisorbed $\text{RhCo}_3(\text{CO})_{12}$; Stabilization of RhCo_3 (Huang, L. (112) 69)
- Regioselectivity
Rhodium; Carbon monoxide; Formic acid; Alkene conversion; Aldehydes (El Ali, B. (112) 195)
- Resins
Zeolites; Acidity; Hydrolysis; Acetals (Moreau, C. (112) 133)
- Rhodium
Silica; Propene; Hydroformylation; Cobalt; Boron (Storaro, L. (112) 43)
- Carbon monoxide; Formic acid; Regioselectivity; Alkene conversion; Aldehydes (El Ali, B. (112) 195)
- Rhodium iodide
Ethene hydrocarboxylation; Propanoic acid (Kilner, M. (112) 327)
- R*-(+)-limonene
Dehydrogenation; Paracycnone; Pd/SiO_2 ; Hydrogen transfer reaction (Lesage, P. (112) 43)
- Ruthenium chloride
Carbon dioxide hydrogenation; Formic acid; Ruthenium complexes (Zhang, J.Z. (112) 9)
- Ruthenium complexes
Carbon dioxide hydrogenation; Formic acid; Ruthenium chloride (Zhang, J.Z. (112) 9)
- SCR reaction
Vanadia monolayer; Transient response technique; IR spectroscopy (Pinaeva, L.G. (112) 115)
- Selective hydrogenation
Pt/Co bimetallic colloid; Cinnamaldehyde (Yu, W. (112) 105)
- Selectivity
Isomerization; Hydrogenation; Allyl alcohol; Amorphous alloy; Copper-zirconium; Copper; Propanal; 1-propanol (Martinek, T. (112) 85)
- Silica
Propene; Hydroformylation; Rhodium; Cobalt; Boron (Storaro, L. (112) 43)
- Silica supported zirconium catalysts
Hydrogen transfer reduction; Alcohol oxidation; Ketone reduction (Leyrit, P. (112) 395)
- SiO_2
EPR; Coordination state; Mo^{5+} ions; Phosphines; Molecular probes (Sojka, Z. (112) 469)
- SiO_2 -physisorbed $\text{RhCo}_3(\text{CO})_{12}$
Stabilization of RhCo_3 ; Regeneration and dissociation of $\text{RhCo}_3(\text{CO})_{12}$ (Huang, L. (112) 69)
- Size exclusion chromatography
Catalyst support characterization; Pumice; Metal supported catalyst; Surface (Duca, D. (112) 413)
- SO_2 adsorption
Acid-base properties; Metal oxides; IR spectroscopy; Catalytic activity (Ziolek, M. (112) 125)
- Solvent effects
Hydrosilylating properties; Platinum/alumina; Temperature effects (Fort, Y. (112) 311)
- Stability
Metallocenes; Photoconversion; Olefin polymerization (Kaminsky, W. (112) 37)
- Stabilization of RhCo_3
 SiO_2 -physisorbed $\text{RhCo}_3(\text{CO})_{12}$; Regeneration and dissociation of $\text{RhCo}_3(\text{CO})_{12}$ (Huang, L. (112) 69)
- Stereochemistry
Wacker; Isomerization; Oxidation; Modified catalyst; Palladium(II) (Francis, J.W. (112) 317)
- Sulfur dioxide
Nitric oxide reduction; Copper; Isobutene; X-ray photoelectron spectroscopy; Environment (Lu, H. (112) 459)
- Sulphur
Oxidation; Fenton reactions; Photocatalysis; Iron; Peroxide (Ansari, A. (112) 269)
- Surface
Size exclusion chromatography; Catalyst support characterization; Pumice; Metal supported catalyst (Duca, D. (112) 413)
- Surface characterization
NO reduction; Copper; Environment; Hydrocarbon oxidation (Lu, H. (112) 447)
- Surface organometallic chemistry
Carene isomerization; Ni/SiO_2 catalyst; Tetra-*n*-butyl tin modified catalyst (Lesage, P. (112) 303)
- TBHP
Epoxidation; Titanium silica; Non-activated alkenes (Cativiela, C. (112) 259)
- Temperature effects
Hydrosilylating properties; Platinum/alumina; Solvent effects (Fort, Y. (112) 311)
- Tetra-*n*-butyl tin modified catalyst
Carene isomerization; Ni/SiO_2 catalyst; Surface organometallic chemistry (Lesage, P. (112) 303)
- Titanium silica
Epoxidation; TBHP; Non-activated alkenes (Cativiela, C. (112) 259)
- TPD
TPR: Platinum oxide; Graphic plot (Hwang, C.-P. (112) 295)
- TPR
TPD: Platinum oxide; Graphic plot (Hwang, C.-P. (112) 295)

Transient response technique

SCR reaction; Vanadia monolayer; IR spectroscopy (Pinaeva, L.G. (112) 115)

Tungsten

π -Allyl hydride intermediate; Isomerization; Metathesis; Bis(alkene) complexes (Szymańska-Buzar, T. (112) 203)

Vanadia monolayer

SCR reaction; Transient response technique; IR spectroscopy (Pinaeva, L.G. (112) 115)

Wacker

Isomerization; Oxidation; Stereochemistry; Modified catalyst; Palladium(II) (Francis, J.W. (112) 317)

Water

Calcium oxide; Hydroxyl group stretching frequencies; MINDO/3 study (Zhanpeisov, N.U. (112) 63)

XPS

Heteropolyacid; Keggin unit; Polymer; Polyaniline; Cumene cracking (Dziembaj, R. (112) 423)

X-ray photoelectron spectroscopy

Nitric oxide reduction; Sulfur dioxide; Copper; Isobutene; Environment (Lu, H. (112) 459)

Zeolites

Resins; Acidity; Hydrolysis; Acetals (Moreau, C. (112) 133)