

Subject index

- Ab initio calculations
Donor–acceptor interactions in the enantioselective hydrogenation of α -ketoesters (de M. Carneiro, J.W. (226) 221)
- Acetals
An improved protocol for aerobic oxidation of acetals to esters catalyzed by *N*-hydroxy phthalimide (NHPI) and lipophilic Co(II) complexes (Karimi, B. (226) 165)
- Acetic acid
Esterification of acetic acid over mesoporous Al-MCM-41 molecular sieves (Palani, A. (226) 129)
- Acetic anhydride
Gadolinium triflate: an efficient and convenient catalyst for acetylation of alcohols and amines (Alleti, R. (226) 57)
- Acetic trifluoromethanesulfonic anhydride
Gadolinium triflate: an efficient and convenient catalyst for acetylation of alcohols and amines (Alleti, R. (226) 57)
- Acetylation
Gadolinium triflate: an efficient and convenient catalyst for acetylation of alcohols and amines (Alleti, R. (226) 57)
- Acid catalysis
Alkylation of naphthalene with alcohols over acidic mesoporous solids (Subrahmanyam, Ch. (226) 155)
- Acid catalyst
Acid catalyzes the synthesis of aromatic *gem*-dihalides from their corresponding aromatic aldehydes (Wolfson, A. (226) 69)
- Acidic medium
Characterization of Ni, NiMo, NiW and NiFe electroactive coatings as electrocatalysts for hydrogen evolution in an acidic medium (Navarro-Flores, E. (226) 179)
- Agrochemicals
Hydroformylation of aryloxy ethylenes by Rh/BINAPHOS complex. Catalyst deactivation path and application to the asymmetric synthesis of 2-aryloxypropanoic acids (Solinas, M. (226) 141)
- Alcohol
Alkylation of naphthalene with alcohols over acidic mesoporous solids (Subrahmanyam, Ch. (226) 155)
- Aldehydes
Vanadyl triflate as an efficient and recyclable catalyst for chemoselective thioacetalization of aldehydes (De, S.K. (226) 77)
- Alkane adsorption
A transient TAP study of the adsorption of C₄-hydrocarbons on sulfated zirconias (Breitkopf, C. (226) 269)
- N*-Alkylation
Selective synthesis of *N,N*-dimethyl aniline derivatives using dimethyl carbonate as a methylating agent and onium salt as a catalyst (Shivarkar, A.B. (226) 49)
- Alkylation
Alkylation of naphthalene with alcohols over acidic mesoporous solids (Subrahmanyam, Ch. (226) 155)
- Al-MCM-41 molecular sieves
Esterification of acetic acid over mesoporous Al-MCM-41 molecular sieves (Palani, A. (226) 129)
- Ammoxidation of propane
Study by electrical conductivity measurement of redox properties of vanadium antimonate and mixed vanadium and iron antimonate (Millet, J.M.M. (226) 111)
- Amyl acetate
Esterification of acetic acid over mesoporous Al-MCM-41 molecular sieves (Palani, A. (226) 129)
- Amyl alcohol
Esterification of acetic acid over mesoporous Al-MCM-41 molecular sieves (Palani, A. (226) 129)
- Anatase
Methylation of phenol over Degussa P25 TiO₂ (Gandhe, A.R. (226) 171)
- Aniline
Selective synthesis of *N,N*-dimethyl aniline derivatives using dimethyl carbonate as a methylating agent and onium salt as a catalyst (Shivarkar, A.B. (226) 49)
- Aromatic aldehydes
Acid catalyzes the synthesis of aromatic *gem*-dihalides from their corresponding aromatic aldehydes (Wolfson, A. (226) 69)
- Benign synthesis
Factors affecting activation and utilization of carbon dioxide in cyclic carbonates synthesis over Cu and Mn peraza macrocyclic complexes (Srivastava, R. (226) 199)
- BINAPHOS
Hydroformylation of aryloxy ethylenes by Rh/BINAPHOS complex. Catalyst deactivation path and application to the asymmetric synthesis of 2-aryloxypropanoic acids (Solinas, M. (226) 141)
- BIPHEPHOS
Isomerizing hydroformylation of *trans*-4-octene to *n*-nonanal in multi-phase systems: acceleration effect of propylene carbonate (Behr, A. (226) 215)
- Brønsted acid site on tungsten chloride
Formation of Brønsted acid site on halide clusters of group 5 and 6 transition metals. Catalytic methylation and demethylation of methylbenzenes with methanol (Kamiguchi, S. (226) 1)
- Butadiene polymerization
Synthesis, structure, and butadiene polymerization behavior of alkylphosphine cobalt(II) complexes (Ricci, G. (226) 235)
- 2-Butene
Metathesis of ethene and 2-butene to propene on W/Al₂O₃-HY catalysts with different HY contents (Huang, S. (226) 61)
- Carbon dioxide
Factors affecting activation and utilization of carbon dioxide in cyclic carbonates synthesis over Cu and Mn peraza macrocyclic complexes (Srivastava, R. (226) 199)
- Carbon nanotubes
Nitrobenzene hydrogenation with carbon nanotube-supported platinum catalyst under mild conditions (Li, C.-H. (226) 101)
- Carbon-supported palladium catalyst, Kinetic discontinuity
Propyne hydrogenation: characteristics of a carbon-supported palladium catalyst that exhibits a kinetic discontinuity effect (Marshall, R. (226) 227)
- Carbonyl compounds
A highly efficient and catalytic synthetic protocol for oxathioacetalization of carbonyl compounds (Khan, A.T. (226) 207)

- Catalysis
 Heck reaction catalysed by pyridyl-imine palladium(0) and palladium(II) complexes (Pelagatti, P. (226) 107)
- Catalysis by Cu and Mn complexes
 Factors affecting activation and utilization of carbon dioxide in cyclic carbonates synthesis over Cu and Mn peraza macrocyclic complexes (Srivastava, R. (226) 199)
- Catalysis by halide cluster
 Formation of Brønsted acid site on halide clusters of group 5 and 6 transition metals. Catalytic methylation and demethylation of methylbenzenes with methanol (Kamiguchi, S. (226) 1)
- Catalyst
 Cyclopalladated complexes derivatives of phenylhydrazones and their use as catalysts in ethylene polymerization (Pérez, M.A. (226) 291)
- Catalytic activity
 Nitrobenzene hydrogenation with carbon nanotube-supported platinum catalyst under mild conditions (Li, C.-H. (226) 101)
- Catalytic effect
 Catalytic effect of laser ablated Ni nanoparticles in the oxidative addition reaction for a coupling reagent of benzylchloride and bromoacetonitrile (Kim, S. (226) 231)
- Catalytic oxidation
 Selectively aerobic oxidation of C=C and allylic C-H bonds in α -pinene over simple metalloporphyrins (Guo, C.-C. (226) 279)
- Catalytic phase transformation
 The formation of hematite from ferrihydrite using Fe(II) as a catalyst (Liu, H. (226) 135)
- Catalytic synthetic protocol
 A highly efficient and catalytic synthetic protocol for oxathioacetalization of carbonyl compounds (Khan, A.T. (226) 207)
- C-H bond activation
 A novel catalytic route to 2-bicyclo[2.2.1]hept-2-ylidenebicyclo[2.2.1]heptane involving C-H bond activation of bicyclo[2.2.1]hept-2-ene (Malinowska, A. (226) 259)
- Chiral sulfoxides
 Asymmetric oxidation of sulfides by LDH supported OsO₄ catalyst (Lakshmi Kantam, M. (226) 119)
- Cinchona alkaloids
 Asymmetric oxidation of sulfides by LDH supported OsO₄ catalyst (Lakshmi Kantam, M. (226) 119)
- Cluster catalysis
 Ir₄ cluster-based selective catalytic hydrogenation of 1,5-cyclooctadiene (Moura, F.C.C. (226) 243)
- CO₂ activation
 Factors affecting activation and utilization of carbon dioxide in cyclic carbonates synthesis over Cu and Mn peraza macrocyclic complexes (Srivastava, R. (226) 199)
- CO₂ fixation
 Factors affecting activation and utilization of carbon dioxide in cyclic carbonates synthesis over Cu and Mn peraza macrocyclic complexes (Srivastava, R. (226) 199)
- CO₂ utilization
 Factors affecting activation and utilization of carbon dioxide in cyclic carbonates synthesis over Cu and Mn peraza macrocyclic complexes (Srivastava, R. (226) 199)
- Co(II) complexes
 An improved protocol for aerobic oxidation of acetals to esters catalyzed by *N*-hydroxy phthalimide (NHPI) and lipophilic Co(II) complexes (Karimi, B. (226) 165)
- Cobalt catalysts
 Synthesis, structure, and butadiene polymerization behavior of alkylphosphine cobalt(II) complexes (Ricci, G. (226) 235)
- Cobalt phosphine complexes
 Synthesis, structure, and butadiene polymerization behavior of alkylphosphine cobalt(II) complexes (Ricci, G. (226) 235)
- Cr/SiO₂-TiO₂
 Synthesis, characterization and photo catalytic degradation of aqueous eosin over Cr containing Ti/MCM-41 and SiO₂-TiO₂ catalysts using visible light (Awate, S.V. (226) 149)
- Cr-Ti/MCM-41
 Synthesis, characterization and photo catalytic degradation of aqueous eosin over Cr containing Ti/MCM-41 and SiO₂-TiO₂ catalysts using visible light (Awate, S.V. (226) 149)
- Cyclic carbonates
 Factors affecting activation and utilization of carbon dioxide in cyclic carbonates synthesis over Cu and Mn peraza macrocyclic complexes (Srivastava, R. (226) 199)
- Demethylation of methylbenzene
 Formation of Brønsted acid site on halide clusters of group 5 and 6 transition metals. Catalytic methylation and demethylation of methylbenzenes with methanol (Kamiguchi, S. (226) 1)
- gem*-Dihalides
 Acid catalyzes the synthesis of aromatic *gem*-dihalides from their corresponding aromatic aldehydes (Wolfson, A. (226) 69)
- Dimerization
 A novel catalytic route to 2-bicyclo[2.2.1]hept-2-ylidenebicyclo[2.2.1]heptane involving C-H bond activation of bicyclo[2.2.1]hept-2-ene (Malinowska, A. (226) 259)
- N,N*-Dimethyl aniline
 Selective synthesis of *N,N*-dimethyl aniline derivatives using dimethyl carbonate as a methylating agent and onium salt as a catalyst (Shivarkar, A.B. (226) 49)
- Dimethyl carbonate
 Selective synthesis of *N,N*-dimethyl aniline derivatives using dimethyl carbonate as a methylating agent and onium salt as a catalyst (Shivarkar, A.B. (226) 49)
- 1,3-Dithiane
 Vanadyl triflate as an efficient and recyclable catalyst for chemoselective thioacetalization of aldehydes (De, S.K. (226) 77)
- 1,3-Dithiolane
 Vanadyl triflate as an efficient and recyclable catalyst for chemoselective thioacetalization of aldehydes (De, S.K. (226) 77)
- Doping
 Zinc ions surface-doped titanium dioxide nanotubes and its photocatalysis activity for degradation of methyl orange in water (Xu, J.-C. (226) 123)
- Double addition
 Microwave-assisted solventless single and double addition of HP(O)Ph₂ to alkynes (Stone, J.J. (226) 11)
- Drug metabolism
 Biomimetic oxidation of praziquantel catalysed by metalloporphyrins (Melo, A.J.B. (226) 23)
- Electrical conductivity
 Study by electrical conductivity measurement of redox properties of vanadium antimonate and mixed vanadium and iron antimonate (Millet, J.M.M. (226) 111)
- Electrocatalytic coatings
 Characterization of Ni, NiMo, NiW and NiFe electroactive coatings as electrocatalysts for hydrogen evolution in an acidic medium (Navarro-Flores, E. (226) 179)
- Enantioselective catalysis
 Hydroformylation of aryloxy ethylenes by Rh/BINAPHOS complex. Catalyst deactivation path and application to the asymmetric synthesis of 2-aryloxypropanoic acids (Solinas, M. (226) 141)
- Enantioselective hydrogenation
 Donor-acceptor interactions in the enantioselective hydrogenation of α -ketoesters (de M. Carneiro, J.W. (226) 221)
- Eosin
 Synthesis, characterization and photo catalytic degradation of aqueous eosin over Cr containing Ti/MCM-41 and SiO₂-TiO₂ catalysts using visible light (Awate, S.V. (226) 149)

- ESR
Effect of preparation parameters on SrTiO_{3±δ} catalyst for the flameless combustion of methane (Oliva, C. (226) 33)
- Esterification
Esterification of acetic acid over mesoporous Al-MCM-41 molecular sieves (Palani, A. (226) 129)
- Ethanol
One-step synthesis of 2-pentanone from ethanol over K-Pd/MnO_x-ZrO₂-ZnO catalyst (He, D. (226) 89)
- Ethene
Metathesis of ethene and 2-butene to propene on W/Al₂O₃-HY catalysts with different HY contents (Huang, S. (226) 61)
- Ethylene
Cyclopalladated complexes derivatives of phenylhydrazones and their use as catalysts in ethylene polymerization (Pérez, M.A. (226) 291)
- Ethylene oxide
Effects of support modification on Nb₂O₅/α-Al₂O₃ catalyst for ethylene oxide hydration (Li, Y. (226) 285)
- EXAFS
A simple route to highly active ruthenium catalysts for formylation reactions with hydrogen and carbon dioxide (Rohr, M. (226) 253)
- Fe(II)
The formation of hematite from ferrihydrite using Fe(II) as a catalyst (Liu, H. (226) 135)
- Ferrihydrite
The formation of hematite from ferrihydrite using Fe(II) as a catalyst (Liu, H. (226) 135)
- Flame Hydrolysis preparation technique
Effect of preparation parameters on SrTiO_{3±δ} catalyst for the flameless combustion of methane (Oliva, C. (226) 33)
- Formation mechanism
The formation of hematite from ferrihydrite using Fe(II) as a catalyst (Liu, H. (226) 135)
- Formylation of amines
A simple route to highly active ruthenium catalysts for formylation reactions with hydrogen and carbon dioxide (Rohr, M. (226) 253)
- Furan diol
Montmorillonite KSF clay as novel and recyclable heterogeneous solid acid for the conversion of D-glycals into furan diol (Yadav, J.S. (226) 213)
- Gadolinium triflate
Gadolinium triflate: an efficient and convenient catalyst for acetylation of alcohols and amines (Alleti, R. (226) 57)
- Glucal
Montmorillonite KSF clay as novel and recyclable heterogeneous solid acid for the conversion of D-glycals into furan diol (Yadav, J.S. (226) 213)
- Heck couplings
Heck reaction catalysed by pyridyl-imine palladium(0) and palladium(II) complexes (Pelagatti, P. (226) 107)
- Hematite
The formation of hematite from ferrihydrite using Fe(II) as a catalyst (Liu, H. (226) 135)
- Heterogeneous catalysis
Donor-acceptor interactions in the enantioselective hydrogenation of α-ketoesters (de M. Carneiro, J.W. (226) 221)
- Hydration
Effects of support modification on Nb₂O₅/α-Al₂O₃ catalyst for ethylene oxide hydration (Li, Y. (226) 285)
- Hydroformylation
Hydroformylation of aryloxy ethylenes by Rh/BINAPHOS complex. Catalyst deactivation path and application to the asymmetric synthesis of 2-aryloxypropanoic acids (Solinas, M. (226) 141)
- Hydrogen
Characterization of Ni, NiMo, NiW and NiFe electroactive coatings as electrocatalysts for hydrogen evolution in an acidic medium (Navarro-Flores, E. (226) 179)
- Hydrogen and carbon monoxide
Partial oxidation of methane to hydrogen and carbon monoxide over a Ni/TiO₂ catalyst (Wu, T. (226) 41)
- Hydrogenation
Propyne hydrogenation: characteristics of a carbon-supported palladium catalyst that exhibits a kinetic discontinuity effect (Marshall, R. (226) 227)
- Hydroxo ligand
Formation of Brønsted acid site on halide clusters of group 5 and 6 transition metals. Catalytic methylation and demethylation of methylbenzenes with methanol (Kamiguchi, S. (226) 1)
- N-hydroxy phthalimide
An improved protocol for aerobic oxidation of acetals to esters catalyzed by N-hydroxy phthalimide (NHPI) and lipophilic Co(II) complexes (Karimi, B. (226) 165)
- Internal olefin
Isomerizing hydroformylation of *trans*-4-octene to *n*-nonanal in multi-phase systems: acceleration effect of propylene carbonate (Behr, A. (226) 215)
- Iridium clusters
Ir₄ cluster-based selective catalytic hydrogenation of 1,5-cyclooctadiene (Moura, F.C.C. (226) 243)
- Iron antimonate
Study by electrical conductivity measurement of redox properties of vanadium antimonate and mixed vanadium and iron antimonate (Millet, J.M.M. (226) 111)
- Isomerization-hydroformylation
Isomerizing hydroformylation of *trans*-4-octene to *n*-nonanal in multi-phase systems: acceleration effect of propylene carbonate (Behr, A. (226) 215)
- K-Pd/MnO_x-ZrO₂-ZnO catalyst
One-step synthesis of 2-pentanone from ethanol over K-Pd/MnO_x-ZrO₂-ZnO catalyst (He, D. (226) 89)
- Laser ablation
Catalytic effect of laser ablated Ni nanoparticles in the oxidative addition reaction for a coupling reagent of benzylchloride and bromoacetonitrile (Kim, S. (226) 231)
- Layered double hydroxides
Asymmetric oxidation of sulfides by LDH supported OsO₄ catalyst (Lakshmi Kantam, M. (226) 119)
- LC-MS
Biomimetic oxidation of praziquantel catalysed by metalloporphyrins (Melo, A.J.B. (226) 23)
- Lewis acid
Gadolinium triflate: an efficient and convenient catalyst for acetylation of alcohols and amines (Alleti, R. (226) 57)
- Mesoporous MCM-48
Alkylation of naphthalene with alcohols over acidic mesoporous solids (Subrahmanyam, Ch. (226) 155)
- Metallacarbene
A novel catalytic route to 2-bicyclo[2.2.1]hept-2-ylidenebicyclo[2.2.1]-heptane involving C-H bond activation of bicyclo[2.2.1]hept-2-ene (Malinowska, A. (226) 259)
- Metalloporphyrin
Biomimetic oxidation of praziquantel catalysed by metalloporphyrins (Melo, A.J.B. (226) 23)
- Metalloporphyrins
Selectively aerobic oxidation of C=C and allylic C-H bonds in α-pinene over simple metalloporphyrins (Guo, C.-C. (226) 279)

- Metathesis**
Metathesis of ethene and 2-butene to propene on W/Al₂O₃-HY catalysts with different HY contents (Huang, S. (226) 61)
- Methane**
Partial oxidation of methane to hydrogen and carbon monoxide over a Ni/TiO₂ catalyst (Wu, T. (226) 41)
- Methane combustion**
Novel Pd/TiO₂-ZrO₂ catalysts for methane total oxidation at low temperature and their ¹⁸O-isotope exchange behavior (Lin, W. (226) 263)
- Methanol**
Methylation of phenol over Degussa P25 TiO₂ (Gandhe, A.R. (226) 171)
- 3-Methoxypropylamine**
A simple route to highly active ruthenium catalysts for formylation reactions with hydrogen and carbon dioxide (Rohr, M. (226) 253)
- Methyl pyruvate hydrogenation**
Donor-acceptor interactions in the enantioselective hydrogenation of α -ketoesters (de M. Carneiro, J.W. (226) 221)
- Methylation**
Methylation of phenol over Degussa P25 TiO₂ (Gandhe, A.R. (226) 171)
Selective synthesis of *N,N*-dimethyl aniline derivatives using dimethyl carbonate as a methylating agent and onium salt as a catalyst (Shivarkar, A.B. (226) 49)
- MgAl₂O₄**
Effects of support modification on Nb₂O₅/ α -Al₂O₃ catalyst for ethylene oxide hydration (Li, Y. (226) 285)
- Modelling of adsorption**
A transient TAP study of the adsorption of C₄-hydrocarbons on sulfated zirconias (Breitkopf, C. (226) 269)
- Modification**
Effects of support modification on Nb₂O₅/ α -Al₂O₃ catalyst for ethylene oxide hydration (Li, Y. (226) 285)
- Montmorillonite**
Stereoselective hydrogenation of phenyl alkyl acetylenes on pillared clays supported palladium catalysts (Marín-Astorga, N. (226) 81)
- Montmorillonite KSF**
Montmorillonite KSF clay as novel and recyclable heterogeneous solid acid for the conversion of D-glycals into furan diol (Yadav, J.S. (226) 213)
- Multiphase catalysis**
Isomerizing hydroformylation of *trans*-4-octene to *n*-nonanal in multiphase systems: acceleration effect of propylene carbonate (Behr, A. (226) 215)
- Nanoparticles**
Catalytic effect of laser ablated Ni nanoparticles in the oxidative addition reaction for a coupling reagent of benzylchloride and bromoacetonitrile (Kim, S. (226) 231)
- Nanotubes**
Zinc ions surface-doped titanium dioxide nanotubes and its photocatalysis activity for degradation of methyl orange in water (Xu, J.-C. (226) 123)
- Naphthalene**
Alkylation of naphthalene with alcohols over acidic mesoporous solids (Subrahmanyam, Ch. (226) 155)
- Ni**
Catalytic effect of laser ablated Ni nanoparticles in the oxidative addition reaction for a coupling reagent of benzylchloride and bromoacetonitrile (Kim, S. (226) 231)
- Ni/TiO₂ catalyst**
Partial oxidation of methane to hydrogen and carbon monoxide over a Ni/TiO₂ catalyst (Wu, T. (226) 41)
- Nickel oxidation states**
Partial oxidation of methane to hydrogen and carbon monoxide over a Ni/TiO₂ catalyst (Wu, T. (226) 41)
- Nickel-based alloys**
Characterization of Ni, NiMo, NiW and NiFe electroactive coatings as electrocatalysts for hydrogen evolution in an acidic medium (Navarro-Flores, E. (226) 179)
- Niobia**
Effects of support modification on Nb₂O₅/ α -Al₂O₃ catalyst for ethylene oxide hydration (Li, Y. (226) 285)
- Nitrobenzene hydrogenation**
Nitrobenzene hydrogenation with carbon nanotube-supported platinum catalyst under mild conditions (Li, C.-H. (226) 101)
- Nitrogen ligands**
Heck reaction catalysed by pyridyl-imine palladium(0) and palladium(II) complexes (Pelagatti, P. (226) 107)
- Non-metallocene**
Cyclopalladated complexes derivatives of phenylhydrazones and their use as catalysts in ethylene polymerization (Pérez, M.A. (226) 291)
- Norbornene**
A novel catalytic route to 2-bicyclo[2.2.1]hept-2-ylidenebicyclo[2.2.1]heptane involving C-H bond activation of bicyclo[2.2.1]hept-2-ene (Malinowska, A. (226) 259)
- O₂**
An improved protocol for aerobic oxidation of acetals to esters catalyzed by *N*-hydroxy phthalimide (NHPI) and lipophilic Co(II) complexes (Karimi, B. (226) 165)
- Onium salts**
Selective synthesis of *N,N*-dimethyl aniline derivatives using dimethyl carbonate as a methylating agent and onium salt as a catalyst (Shivarkar, A.B. (226) 49)
- Osmium**
Asymmetric oxidation of sulfides by LDH supported OsO₄ catalyst (Lakshmi Kantam, M. (226) 119)
- Oxathioacetalization**
A highly efficient and catalytic synthetic protocol for oxathioacetalization of carbonyl compounds (Khan, A.T. (226) 207)
- Oxidation**
An improved protocol for aerobic oxidation of acetals to esters catalyzed by *N*-hydroxy phthalimide (NHPI) and lipophilic Co(II) complexes (Karimi, B. (226) 165)
Biomimetic oxidation of praziquantel catalysed by metalloporphyrins (Melo, A.J.B. (226) 23)
- Oxygen mobility**
Novel Pd/TiO₂-ZrO₂ catalysts for methane total oxidation at low temperature and their ¹⁸O-isotope exchange behavior (Lin, W. (226) 263)
- Oxygen-centred radicals**
Effect of preparation parameters on SrTiO_{3 \pm δ} catalyst for the flameless combustion of methane (Oliva, C. (226) 33)
- Palladium**
Novel Pd/TiO₂-ZrO₂ catalysts for methane total oxidation at low temperature and their ¹⁸O-isotope exchange behavior (Lin, W. (226) 263)
- Palladium catalysts**
Heck reaction catalysed by pyridyl-imine palladium(0) and palladium(II) complexes (Pelagatti, P. (226) 107)
- Palladium complex**
Cyclopalladated complexes derivatives of phenylhydrazones and their use as catalysts in ethylene polymerization (Pérez, M.A. (226) 291)
- Partial oxidation**
Partial oxidation of methane to hydrogen and carbon monoxide over a Ni/TiO₂ catalyst (Wu, T. (226) 41)
- Pd**
Stereoselective hydrogenation of phenyl alkyl acetylenes on pillared clays supported palladium catalysts (Marín-Astorga, N. (226) 81)
- 2-Pentanone**
One-step synthesis of 2-pentanone from ethanol over K-Pd/MnO_x-ZrO₂-ZnO catalyst (He, D. (226) 89)
- Phenol**
Methylation of phenol over Degussa P25 TiO₂ (Gandhe, A.R. (226) 171)

- Phenol degradation
Preparation of an active $\text{SO}_4^{2-}/\text{TiO}_2$ photocatalyst for phenol degradation under supercritical conditions (Li, H. (226) 93)
- Phenyl alkyl acetylenes
Stereoselective hydrogenation of phenyl alkyl acetylenes on pillared clays supported palladium catalysts (Marín-Astorga, N. (226) 81)
- Phosphines
A simple route to highly active ruthenium catalysts for formylation reactions with hydrogen and carbon dioxide (Rohr, M. (226) 253)
- Photo degradation
Synthesis, characterization and photo catalytic degradation of aqueous eosin over Cr containing Ti/MCM-41 and $\text{SiO}_2\text{-TiO}_2$ catalysts using visible light (Awate, S.V. (226) 149)
- Photocatalysis
Preparation of an active $\text{SO}_4^{2-}/\text{TiO}_2$ photocatalyst for phenol degradation under supercritical conditions (Li, H. (226) 93)
- Pillared clays
Stereoselective hydrogenation of phenyl alkyl acetylenes on pillared clays supported palladium catalysts (Marín-Astorga, N. (226) 81)
- α -Pinene
Selectively aerobic oxidation of C=C and allylic C-H bonds in α -pinene over simple metalloporphyrins (Guo, C.-C. (226) 279)
- Polybutadiene
Synthesis, structure, and butadiene polymerization behavior of alkylphosphine cobalt(II) complexes (Ricci, G. (226) 235)
- Polycarbonates
Factors affecting activation and utilization of carbon dioxide in cyclic carbonates synthesis over Cu and Mn peraza macrocyclic complexes (Srivastava, R. (226) 199)
- Polymerization
Cyclopalladated complexes derivatives of phenylhydrazones and their use as catalysts in ethylene polymerization (Pérez, M.A. (226) 291)
- $(\text{PPh}_3)_3\text{RhCl}$
Microwave-assisted solventless single and double addition of HP(O)Ph_2 to alkynes (Stone, J.J. (226) 11)
- Praziquantel
Biomimetic oxidation of praziquantel catalysed by metalloporphyrins (Melo, A.J.B. (226) 23)
- Propene
Metathesis of ethene and 2-butene to propene on $\text{W/Al}_2\text{O}_3\text{-HY}$ catalysts with different HY contents (Huang, S. (226) 61)
Propyne hydrogenation: characteristics of a carbon-supported palladium catalyst that exhibits a kinetic discontinuity effect (Marshall, R. (226) 227)
- Propyne
Propyne hydrogenation: characteristics of a carbon-supported palladium catalyst that exhibits a kinetic discontinuity effect (Marshall, R. (226) 227)
- Pt supported catalyst
Nitrobenzene hydrogenation with carbon nanotube-supported platinum catalyst under mild conditions (Li, C.-H. (226) 101)
- Reaction mechanism
Donor-acceptor interactions in the enantioselective hydrogenation of α -ketoesters (de M. Carneiro, J.W. (226) 221)
- Recyclability
Vanadyl triflate as an efficient and recyclable catalyst for chemoselective thioacetalization of aldehydes (De, S.K. (226) 77)
- Reducibility
Novel $\text{Pd/TiO}_2\text{-ZrO}_2$ catalysts for methane total oxidation at low temperature and their ^{18}O -isotope exchange behavior (Lin, W. (226) 263)
- Rhodium
Hydroformylation of aryloxy ethylenes by Rh/BINAPHOS complex. Catalyst deactivation path and application to the asymmetric synthesis of 2-aryloxypropanoic acids (Solinas, M. (226) 141)
- Isomerizing hydroformylation of *trans*-4-octene to *n*-nonanal in multi-phase systems: acceleration effect of propylene carbonate (Behr, A. (226) 215)
- Ruthenium chloride
A simple route to highly active ruthenium catalysts for formylation reactions with hydrogen and carbon dioxide (Rohr, M. (226) 253)
- Rutile
Methylation of phenol over Degussa P25 TiO_2 (Gandhe, A.R. (226) 171)
- Schiff-bases
Heck reaction catalysed by pyridyl-imine palladium(0) and palladium(II) complexes (Pelagatti, P. (226) 107)
- Selective hydrogenation
 Ir_4 cluster-based selective catalytic hydrogenation of 1,5-cyclooctadiene (Moura, F.C.C. (226) 243)
- Selectivity
Selectively aerobic oxidation of C=C and allylic C-H bonds in α -pinene over simple metalloporphyrins (Guo, C.-C. (226) 279)
- Single addition
Microwave-assisted solventless single and double addition of HP(O)Ph_2 to alkynes (Stone, J.J. (226) 11)
- SO_4^{2-} -dopant
Preparation of an active $\text{SO}_4^{2-}/\text{TiO}_2$ photocatalyst for phenol degradation under supercritical conditions (Li, H. (226) 93)
- Solid acid
Acid catalyzes the synthesis of aromatic *gem*-dihalides from their corresponding aromatic aldehydes (Wolfson, A. (226) 69)
- Solventless reactions
Microwave-assisted solventless single and double addition of HP(O)Ph_2 to alkynes (Stone, J.J. (226) 11)
- Spectroscopy
Factors affecting activation and utilization of carbon dioxide in cyclic carbonates synthesis over Cu and Mn peraza macrocyclic complexes (Srivastava, R. (226) 199)
- SrTiO_3 oxidation catalysts
Effect of preparation parameters on $\text{SrTiO}_{3\pm\delta}$ catalyst for the flameless combustion of methane (Oliva, C. (226) 33)
- Stereoselectivity
Stereoselective hydrogenation of phenyl alkyl acetylenes on pillared clays supported palladium catalysts (Marín-Astorga, N. (226) 81)
- Sulfated zirconia
A transient TAP study of the adsorption of C_4 -hydrocarbons on sulfated zirconias (Breitkopf, C. (226) 269)
- Sulfides
Asymmetric oxidation of sulfides by LDH supported OsO_4 catalyst (Lakshmi Kantam, M. (226) 119)
- Supercritical drying
Preparation of an active $\text{SO}_4^{2-}/\text{TiO}_2$ photocatalyst for phenol degradation under supercritical conditions (Li, H. (226) 93)
- Support
Effects of support modification on $\text{Nb}_2\text{O}_5/\alpha\text{-Al}_2\text{O}_3$ catalyst for ethylene oxide hydration (Li, Y. (226) 285)
- Surface
Zinc ions surface-doped titanium dioxide nanotubes and its photocatalysis activity for degradation of methyl orange in water (Xu, J.-C. (226) 123)
- Temporal analysis of products
A transient TAP study of the adsorption of C_4 -hydrocarbons on sulfated zirconias (Breitkopf, C. (226) 269)
- TiO_2
Methylation of phenol over Degussa P25 TiO_2 (Gandhe, A.R. (226) 171)
Partial oxidation of methane to hydrogen and carbon monoxide over a Ni/TiO_2 catalyst (Wu, T. (226) 41)

- TiO₂ nanoparticles
Preparation of an active SO₄²⁻/TiO₂ photocatalyst for phenol degradation under supercritical conditions (Li, H. (226) 93)
- TiO₂-ZrO₂ binary oxide
Novel Pd/TiO₂-ZrO₂ catalysts for methane total oxidation at low temperature and their ¹⁸O-isotope exchange behavior (Lin, W. (226) 263)
- Titanium dioxide
Zinc ions surface-doped titanium dioxide nanotubes and its photocatalysis activity for degradation of methyl orange in water (Xu, J.-C. (226) 123)
- Toluene methylation with methanol
Formation of Brønsted acid site on halide clusters of group 5 and 6 transition metals. Catalytic methylation and demethylation of methylbenzenes with methanol (Kamiguchi, S. (226) 1)
- Tungsten catalyst
A novel catalytic route to 2-bicyclo[2.2.1]hept-2-ylidenebicyclo[2.2.1]heptane involving C-H bond activation of bicyclo[2.2.1]hept-2-ene (Malinowska, A. (226) 259)
- Vanadium antimonate
Study by electrical conductivity measurement of redox properties of vanadium antimonate and mixed vanadium and iron antimonate (Millet, J.M.M. (226) 111)
- Vanadyl triflate
Vanadyl triflate as an efficient and recyclable catalyst for chemoselective thioacetalization of aldehydes (De, S.K. (226) 77)
- Visible light
Synthesis, characterization and photo catalytic degradation of aqueous eosin over Cr containing Ti/MCM-41 and SiO₂-TiO₂ catalysts using visible light (Awate, S.V. (226) 149)
- 10W/Al₂O₃-xHY catalysts
Metathesis of ethene and 2-butene to propene on W/Al₂O₃-HY catalysts with different HY contents (Huang, S. (226) 61)
- Water electrolysis
Characterization of Ni, NiMo, NiW and NiFe electroactive coatings as electrocatalysts for hydrogen evolution in an acidic medium (Navarro-Flores, E. (226) 179)
- X-ray absorption spectroscopy
A simple route to highly active ruthenium catalysts for formylation reactions with hydrogen and carbon dioxide (Rohr, M. (226) 253)
- X-ray structure
Synthesis, structure, and butadiene polymerization behavior of alkylphosphine cobalt(II) complexes (Ricci, G. (226) 235)
- Zeolites
Alkylation of naphthalene with alcohols over acidic mesoporous solids (Subrahmanyam, Ch. (226) 155)
- Zinc ions
Zinc ions surface-doped titanium dioxide nanotubes and its photocatalysis activity for degradation of methyl orange in water (Xu, J.-C. (226) 123)