NW10A

2006

Y.Izumi, D.Masih, K.Aika and Y.Seida
Creation of Micro and Mesoporous Fe^{III} Materials Utilizing Organic Template Followed by Carboxylates Exchage for the Low Concentrations of Arsenic Removal
Micropor. Mesopor. Mater., **94** (2006) 243.

Y.Izumi, D.Masih, T.Baba, K.Aika and Y.Seida
Creation of Micro and Mesoporous Fe(III) Materials Utilizing Carboxylates Exchange and the Application to the Low Concentrations of Arsenite Removal
Syokubai, **48** (2006) 371. (*in Japanese*).

M.Tada, J.Yoshida, R.Coquet, T.Taniike and Y.Iwasawa
A Novel SiO_2-Supported Ru-Complex Catalyst for Alkene Epoxidation
Shokubai, **48** (2006) 421. (*in Japanese*).

T.Naito, H.Sugawara, T.Inabe, T.Miyamoto, H.Niimi and K.Asakura
Photochemical Fabrication of Molecular Devices
J. Non-Cryst. Solids, **352** (2006) 2628.

2007

Y.Izumi, D.Masih, K.Aika and Y.Seida
Erratum to "Creation of Micro and Mesoporous Fe^{III} Materials Utilizing Organic Template Followed by Carboxylates Exchage for the Low Concentrations of Arsenic Removal" [Microporous and Mesoporous Materials 94 (2006) 243]
Micropor. Mesopor. Mater., **99** (2007) 355.

Y.Izumi, K.Konishi, M.Tsukahara, D.M.Obaid and K.Aika
Selective Butanol Synthesis over Rhodium-Molybdenum Catalysts Supported in Ordered Mesoporous Silica
J. Phys. Chem. C, **111** (2007) 10073.

M.Nomura, Y.Koike, M.Sato, A.Koyama, Y.Inada and K.Asakura
A New XAFS Beamline NW10A at the Photon Factory
AIP Conf. Proc., **882** (2007) 896.

T.Naito, H.Sugawara, T.Inabe, Y.Kitajima, T.Miyamoto, H.Niimi and K.Asakura
Uv-vis Induced Vitrification of A Molecular Crystal
Adv. Func. Mater., **17** (2007) 1663.

J.Lu, X.Zhang, J.J.Bravo-Suarez, K.K.Bando, T.Fujitani and S.T.Oyama
Direct Propylene Epoxidation over Barium-Promoted Au/Ti-TUD Catalysts with H_2 and O_2: Effect of Au Particle Size
J. Catal., **250** (2007) 350.

Y.Izumi, D.Masih, E.Roisin, J.Candy, H.Tanida and T.Uruga
X-Ray Absorption Fine Structure Combined with X-Ray Fluorescence Spectrometry. Part 18. Tin Site Structure of Pt-Sn Catalyst
Materials Letters, **61** (2007) 3833.

M.Tada, R.Coquet, J.Yoshida, M.Kinoshita and Y.Iwasawa
Selective Formation of A Coordinatively Unsaturated Metal Complex at a Surface: A SiO_2-Immobilized, Three-Coordinate Ruthenium Catalyst for Alkene Epoxidation
Angew. Chem. Int. Ed., **46** (2007) 7220.

M.Tada and Y.Iwasawa
Advanced Design of Catalytically Active Reaction Space at Surfaces for Selective Catalysis
Coord. Chem. Rev., **251** (2007) 2702.

H.Ikemoto and T.Miyanaga
Extended X-Ray Absorption Fine Structure Study of Local Structure and Atomic Correlations of Tellurium Nanoparticles
Phys. Rev. Lett., **99** (2007) 165503.

S.Emura, Y.Arata, Y.Arachi, M.Nunogami and A.Ohmura
Atomic Structure Analysis of Pd Nano-Cluster in Nano-Composite Pd/ZrO_2 Absorbing
High Temperature Soc. Jpn., **33** (2007) 142. (*in Japanese*).

Y.Arachi, S.Emura, A.Omura, M.Nunogaki, T.Asai, S.Yamaura, A.Inoue and Y.Arata
Alternation of the Pd Lattice in Nano-Sized-Pd/ZrO_2 Composite during Hydrogen Absorption
AIP Conf. Proc., **882** (2007) 740.

M.Sekine, Y.Suzuki, H.Ueno, Y.Onodera, T.Usuki, T.Nasu and S.Wei
Appearance of Fast Ionic Conduction in AgI-Doped Chalcogenide Glass Powders Prepared by Mechanical Milling
J. Non-Cryst. Solids, **353** (2007) 2069.

T.Usuki, K.Nakajima, T.Furukawa, M.Sakurai, S.Kohara, T.Nasu, Y.Amo and Y.Kameda
Structure of Fast Ion Conducting $AgI\text{-}As_2Se_3$ Glasses
J. Non-Cryst. Solids, **353** (2007) 3040.

2008

Y.Izumi
Development of Structural Analysis for Nano-Particles
Polyfile, **45(528)** (2008) 46. (*in Japanese*).

M.Ueji, M.Harada and Y.Kimura
Synthesis of Pt/Ru Bimetallic Nanoparticles in High-Temperature and High-Pressure Fluids
J. Colloid and Interface Science, **322** (2008) 358.

M.Harada, M.Ueji and Y.Kimura
Synthesis of Colloidal Particles of Poly(2-Vinylpyridine)-Coated Palladium and Platinum in Organic Solutions under the High Temperatures and High Pressures
Colloids and Surfaces A: Physicochem. Eng. Aspects, **315** (2008) 304.

C.S.Schnohr, P.Kluth, A.P.Byrne, G.J.Foran and M.C.Ridgway
Comparison of the Atomic Structure of InP Amorphised by Electronic or Nuclear Ion-Energy-Loss Processes
Phys. Rev. B, **77** (2008) 073204.

M.Harada and S.Takahashi
Synthesis of Ruthenium Particles by Photoreduction in Polymer Solutions
J. Colloid and Interface Science, **325** (2008) 1.

A.Yamaguchi, N.Hiyoshi, O.Sato, M.Osada and M.Shirai
EXAFS Study on Structural Change of Charcoal-Supported Ruthenium Catalysts during Lignin Gasification in Supercritical Water
Catal. Lett., **122** (2008) 188.

A.Yamaguchi, N.Hiyoshi, O.Sato, M.Osada and M.Shirai
Lignin Gasification over Supported Ruthenium Trivalent Salts in Supercritical Water
Energy Fuels, **22** (2008) 1485.

L.Yuliati, H.Itoh and H.Yoshida
Photocatalytic Conversion of Methance and Carbon Dioxide over Gallium Oxide
Chem. Phys. Lett., **452** (2008) 178.

M.Harada, K.Kuramitsu, Y.Kimura and K.Saijo
In Situ Observation of Formation of Silver Particles in Water-in-scCO$_2$ Emulsions
Colloids and Surfaces A, **327** (2008) 21.

S.Kodama, N.Ichikuni, K.K.Bando, T.Hara and S.Shimazu
Preparation of Supported NbC Catalysts from Peroxoniobic Acid and *in situ* XAFS Characterization
Appl. Catal. A, **343** (2008) 25.

H.Tanaka, M.Kuriyama, Y.Ishida, S.Ito, T.Kubota, T.Miyao, S.Naito, K.Tomishige and K.Kunimori
Preferential CO Oxidation in Hydrogen-Rich Stream over Pt Catalysts Modified with Alkali Metals Part II. Catalyst Characterization and Role of Alkali Metals
Appl. Catal. A: General, **343** (2008) 125.

C.S.Schnohr, L.L.Araujo, P.Kluth, D.J.Sprouster, G.J.Foran and M.C.Ridgway
Atomic-Scale Structure of $Ga_{1-x}In_xP$ Alloys Measured with Extended X-Ray Absorption Fine Structure Spectroscopy
Phys. Rev. B, **78** (2008) 115201.

S.Sugiyama, Y.Hirata, K.Nakagawa, K.-I.Sotowa, K.Maehara, Y.Himeno and W.Ninomiya
Application of the Unique Redox Properties of Magnesium *ortho*-Vanadate Incorporated with Palladium in the Unsteady-State Operation of the Oxidative Dehydrogenation of Propane
J. Catal., **260** (2008) 157.

S.Takenaka, T.Arike, H.Matsune, E.Tanabe and M.Kishida
Synthesis of Carbon Nanotube-Supported Pt Nanoparticles Covered with Silica Layers
Carbon, **46** (2008) 365.

S.Takenaka, T.Arike, H.Matsune, E.Tanabe and M.Kishida
Preparation of Carbon Nanotube-Supported Metal Nanoparticles Coated with Silica Layers
J. Catal., **257** (2008) 345.

M.Tada, Y.Akatsuka, Y.Yang, T.Sasaki, M.Kinoshita and Y.Iwasawa
Photoinduced Reversible Structural Transformation and Selective Oxidation Catalysis of Unsaturated Ruthenium Complexes Supported on SiO_2
Angew. Chem. Int. Ed., **47** (2008) 9252.

M.Tada, K.Motokura and Y.Iwasawa
Conceptual Integration of Homogeneous and Heterogeneous Catalyses
Topic Catal., **48** (2008) 32.

J.J.Bravo-Suarez, K.K.Bando, T.Fujitani and S.T.Oyama
Mechanistic Study of Propane Selective Oxidation with H_2 and O_2 on Au/TS-1
J. Catal., **257** (2008) 32.

J.J.Bravo-Suarez, K.K.Bando, J.Lu, T.Fujitani and S.T.Oyama
Propane Reacts with O_2 and H_2 on Gold Supported TS-1 to Form Oxygenates with High Selectivity
Chem. Commun., (2008) 3272.

J.J.Bravo-Suarez, K.K.Bando, J.Lu, T.Fujitani, T.J.Fuhrer and S.T.Oyama
Oxidation of Propane to Propylene Oxide on Gold Catalysts
J. Catal., **255** (2008) 114.

J.J.Bravo-Suarez, K.K.Bando, J.Lu, M.Haruta, T.Fujitani and S.T.Oyama
Transient Technique for Idetification of True Reaction Intermediates: Hydroperoxide Species in Propylene Epoxidation on Gold/Titanosilicate Catalysts by X-Ray Absorption Fine Structure Spectroscopy
J. Phys. Chem. C, **112** (2008) 1115.

K.Ikeue, S.Mizukami, A.Kuroda, S.Hamada, A.Hongo and M.Machida
Noble-Metal-Containing Nanoporous Carbon Synthesized within the Interlayer Space of Montmorillonite and its Catalytic Property
Appl. Catal. A: General, **351** (2008) 68.

K.Ikeue, T.Tanaka, N.Miyoshi and M.Machida
Synthesis and Characterization of Lanthanide-Incorporated FSM-16 Type Mesoporous Silica
Solid State Sci., **10** (2008) 1584.

T.Ohkubo
Structure of Elctrolytic Solution under Nano-Restricted Condition
Newsletter (The Division of Colloid and Surface Science, The Chemistry of Japan), **33** (2008) 2. (*in Japanese*).

Y.Okuno, Y.Hattori, T.Ohba, K.Kaneko and H.Kanoh
Mesoporous Ni-Fe Alloys
Adsorption Sci. and Tech., **26** (2008) 581.

T.Kawai, W.J.Chun, K.Asakura, Y.Koike, M.Nomura, K.K.Bando, S.T.Oyama and H.Sumiya
Design of a High-Tempeature and High Pressure Liquid Flow Cell for XAFS Measurements under Catalytic Reaction Condtions
Rev. Sci. Instrum., **79** (2008) 014101.

Y.Izumi, D.M.Obaid, K.Konishi, D.Masih, M.Takagaki, Y.Terada, H.Tanida and T.Uruga
State-Sensitive Monitoring of Gold Nanoparticle Sites on Titania and the Interaction of the Positive Au Site with O_2 by Au Lα_1-Selecting X-Ray Absorption Fine Structure
Inorg. Chimica Acta, **361** (2008) 1149.

G.Hamasaka, S.Kawamorita, A.Ochida, R.Akiyama, K.Hara, A.Fukuoka, K.Asakura, W.J.Chun, H.Ohmiya and M.Sawamura
Synthesis of Silica-Supported Compact Phosphines and Their Application to Rhodium-Catalyzed Hydrosilylation of Hindered Ketones with Triorganosilanes
Organometallics, **27** (2008) 6495.

Q.Wang, C.X.Li, Z.H.Wu, L.W.Wang, X.J.Niu, W.S.Yan, Y.N.Xie, S.Q.Wei and K.Q.Lu
Temperature Effect of the Local Structure in Liquid Sb Studied with X-Ray Absorption Spectroscopy
J. Chem. Phys., **128** (2008) 224501.

2009

S.Takenaka, T.Iguchi, E.Tanabe, H.Matsune and M.Kishida
Formation of Carbon Nanotubes through Ethylene Decomposition over Supported Pt Catalysts and Silica-Coated Pt Catalysts
Carbon, **47** (2009) 1251.

Y.Kuroda, T.Mori, Y.Uozumi, K.Ikeda, A.Itadani and M.Nagao
On the Possibility of AgZSM-5 Zeolite being a Partial Oxidation Catalyst for Methane
J. Colloid Interface Sci., **333** (2009) 294.

H.Ikemoto, A.Goyo, S.Yoshida, T.Miyanaga and K.Nitta
The EXAFS Debye-Waller Factors of the Tellurium Nanoparticles
e-J. Surf. Sci. Nanotech., **7** (2009) 45.

M.Harada, Y.Inada and M.Nomura
In situ Time-Resolved XAFS Analysis of Silver Particle Formation by Photoreduction in Polymer Solutions
J. Colloid Interface Sci., **337** (2009) 427.

Y.Koike, W.J.Chun, K.Ijima, S.Suzuki and K.Asakura
What is the Interaction between Atomically Dispersed Ni and Oxide Surfaces?
Mater. Transactions., **50** (2009) 509.

M.Okamoto and Y.Taniguchi
Wacker-Type Oxidation in Vapor Phase using in Palladium-Copper Chloride Catalyst in a Liquid Polymer Medium Supported on Silica Gel
J. Catal., **261** (2009) 195.

N.Rinaldi, Usman, K.Al-Dalama, T.Kubota and Y.Okamoto
Preparation of Co-Mo/B_2O_3/Al_2O_3 Catalysts for Hydrodesulfurization: Effect of Citric Acid Addition
Appl. Catal. A, **360** (2009) 130.

M.Harada and Y.Inada
In situ Time-Resolved XAFS Studies of Metal Particle Formation by Photoreduction in Polymer Solutions
Langmuir, **25** (2009) 6049.

M.Harada, Y.Kimura, K.Saijo, T.Ogawa and S.Isoda
Photochemical Synthesis of Silver Particles in Tween20/Water/Ionic Liquid Microemulsions
J. Colloid Interface Sci., **339** (2009) 373.

Y.Wakai, T.Hara, K.K.Bando, N.Ichikuni and S.Shimazu
Promotional Effect of Iron for the Nitridation of Niobium Oxide to Niobium Nitride
Top. Catal., **52** (2009) 1517.

S.Sugiyama, T.Kikumoto, H.Tanaka, K.Nakagawa, K.-I.Sotowa, K.Maehara, Y.Himeno and W.Ninomiya
Enhancement of Catalytic Activity on Pd/C and Te-Pd/C during the Oxidative Dehydrogenation of Sodium Lactate to Pyruvate in an Aqueous Phase under Pressurized Oxygen
Catal. Lett., **131** (2009) 129.

S.T.Oyama, T.Gott, K.Asakura, S.Takakusagi, K.Miyazaki, Y.Koike and K.K.Bando
In situ FTIR and XANES Studies of Thiophene Hydrodesulfurization on Ni_2P/MCM-41
J. Catal., **268** (2009) 209.

K.K.Bando, T.Wada, T.Miyamoto, K.Miyazaki, S.Takakusagi, T.Gott, A.Yamaguchi, M.Nomura, S.T.Oyama and K.Asakura
Combined in situ Analysis of Ni_2P/MCM-41 under Hydrodesulfurization Conditions - Simultaneous Observation of QXAFS and FTIR -
J. Phys. Conference Series, **190** (2009) 012158.

V.Petrykin, K.Macounova, M.Okube, J.Franc and P.Krtil
Analysis of Local Structure of $Ru_{1-x}Ni_xO_2$ Electrocatalytic Materials
J. Phys.: Conf. Ser., **190** (2009) 012166.

H.Murayama, N.Hashimoto and H.Tanaka
Growth Process of Ag Triangular Nanoplates Observed by in situ XAFS
J. Phys.: Conf. Ser., **190** (2009) 012132.

M.Okamoto and Y.Taniguchi
Acetaldehyde Synthesis by Ethylene Oxidation Catalyzed by $PdCl_2$-$CuCl_2$-LiCl in PEG Supported on Silica
Shokubai, **51** (2009) 441. (*in Japanese*).

N.Rinaldi, T.Kubota and Y.Okamoto
Effect of Citric Acid Addition on Co-Mo/B_2O_3/Al_2O_3 Catalysts Prepared by a Post-Treatment Method
Ind. Eng. Chem. Res., **48** (2009) 10414.

T.Miyamoto, Y.Kitajima, H.Sugawara, T.Naito, T.Inabe and K.Asakura
Origin of Photochemical Modification of the Resistivity of $Ag(DMe\text{-}DCNQI)_2$ Studied by X-Ray Absorption Fine Structure
J. Phys. Chem. C, **113** (2009) 20476.

H.Ikemoto, A.Goyo, H.Maekawa, Y.Okuda, T.Miyanaga and K.Nitta
The Size Dependence of the Einstein Temperature of the Tellurium Nanoparticles
J. Phys.: Conf. Ser., **190** (2009) 012126.

C.S.Schnohr, P.Kluth, L.L.Araujo, D.J.Sprouster, A.P.Byrne, G.J.Foran and M.C.Ridgway
Anisotropic Vibrations in Crystalline and Amorphous InP
Phys. Rev. B, **79** (2009) 195203.

V.Petrykin, Z.Bastl, J.Franc, K.Macounova, M.Makarova, S.Mukerjee, N.Ramaswamy, I.Spirovova and P.Krtil
Local Structure of Nanocrystalline $Ru_{1-x}Ni_xO_{2-d}$ Dioxide and its Implications for Electrocatalytic Behavior - An XPS and XAS Study
J. Phys. Chem. C, **113** (2009) 21657.

H.Murayama, N.Hashimoto and H.Tanaka
Ag Triangular Nanoplates Synthesized by Photo-Induced Reduction: Structure Analysis and Stability
Chem. Phys. Lett., **482** (2009) 291.

N.Ichikuni, Y.Wakai, T.Hara and S.Shimazu
Nb and Fe K-Edges XAFS Study on the Structure of Supported Fe-NbN Catalysts
J. Phys.: Conf. Ser., **190** (2009) 012169.

T.Miyanaga, T.Itoga, T.Okazaki and K.Nitta
Local Structural Change under Antiferro- and Ferromagnetic Transition in FeRh Alloy
J. Phys.: Conf. Ser., **190** (2009) 012097.

A.Yamaguchi, N.Hiyoshi, O.Sato, K.K.Bando, M.Osada and M.Shirai
Hydrogen Production from Woody Biomass over Supported Metal Catalysts in Supercritical Water
Catal. Today, **146** (2009) 192.

Y.Kuroda
Prominent Adsorption Feature of Copper-Ion-Exchanged Zeolites for Dinitrogen and Dihydrogen Molecules at Room Temperature
Zeolite, **26** (2009) 138. (*in Japanese*).

2010

M.Harada, K.Saijo, N.Sakamoto and K.Ito
Characterization of Water/AOT/Benzene Microemulsions during Photoreduction to Produce Silver Particles
J. Colloid Interface Sci., **343** (2010) 423.

N.Rinaldi, T.Kubota and Y.Okamoto
Effect of Citric Acid Addition on the Hydrodesulfurization Activity of MoO_3/Al_2O_3 Catalysts
Appl. Catal. A: General, **374** (2010) 228.

K.Shimura, S.Kato, T.Yoshida, H.Itoh, T.Hattori and H.Yoshida
Photocatalytic Steam Reforming of Methane over Sodium Tantalate
J. Phys. Chem. C, **114** (2010) 3493.

M.Ishikawa, M.Sekine, T.Usuki and T.Nasu
Ionic Conduction and Local Structure in AgI-As_2Se_3 Glasses
J. Phys. Soc. Jpn., **79** (2010) 137.

Y.Mitani, K.Oka, Y.Shibata, K.Konishi, D.M.Obaid, E.Ishikawa, Y.Izumi and T.Yamase
Monitoring of Photochemical Self-Assembly of $[Mo_7O_{24}]^{6-}$ to $\{Mo_{142}\}$ -Blue Nanoring by using Mo K-Edge XAFS
Chem. Lett., **39** (2010) 132.

T.Miyamoto, H.Niimi, Y.Kitajima, T.Naito and K.Asakura
Ag L_3-Edge X-Ray Absorption Near-Edge Structure of $4d^{10}$ (Ag^+) Compounds: Origin of the Edge Peak and its Chemical Relevance
J. Phys. Chem. A, **114** (2010) 4093.

N.Koizumi, Y.Hamabe, S.Jung, Y.Suzuki, S.Yoshida and M.Yamada
In-situ Observation of Ni-Mo-S Phase Formed on $NiMo/Al_2O_3$ Catalyst Sulfided at High Pressure by Means of Ni and Mo K-Edge EXAFS Spectroscopy
J. Synchrotron Rad., **17** (2010) 414.

M.Tada, S.Muratsugu, M.Kinoshita, T.Sasaki and Y.Iwasawa
Alternative Selective Oxidation Pathways for Aldehyde Oxidation and Alkene Epoxidation on a SiO_2-Supported Ru-Monomer Complex Catalyst
J. Am. Chem. Soc., **132** (2010) 713.

R.Sumii, M.Sakamaki, Y.Matsumoto, K.Amemiya, K.Kanai and K.Seki
Observation of Intermolecular N-I Interaction during the Growth of a 4-Cyano-4'-Iodobiphenyl Molecular Crystal on GeS(001)
Surf. Sci., **604** (2010) 1100.

S.Sugiyama, H.Tanaka, T.Kikumoto, K.Nakagawa, K.Sotowa, K.Maehara and W.Ninomiya
Application of Heavy-Metal-Free Pd/C Catalyst for the Oxidative Dehydrogenation of Sodium Lactate to Pyruvate in an Aqueous Phase under Pressurized Oxygen
J. Chemical Engineering of Jpn., **43** (2010) 514.

T.Yao, Z.Sun, Y.Li, Z.Pan, H.Wei, Y.Xie, M.Nomura, Y.Niwa, W.Yan, Z.Wu, Y.Jiang, Q.Liu and S.Wei
Insights into Initial Kinetic Nucleation of Gold Nanocrystals
J. Am. Chem. Soc., **132** (2010) 7696.

K.Ikeue, S.Shiiba and M.Machida
Novel Visible-Light-Driven Photocatalyst Based on Mn-Cd-S for Efficient H_2 Evolution
Chem. Mater., **22** (2010) 743.

T.A.Yamamoto, T.Nakagawa, S.Seino and H.Nitani
Bimetallic Nanoparticles of PtCu and PtNi; Synthesis and CO Oxidation Catalysis
2009 MRS Fall Meeting Symposium Y proc., **1217** (2010)

H.Torigoe, T.Mori, K.Fujie, T.Ohkubo, A.Itadani, K.Gotoh, H.Ishida, H.Yamashita, T.Yumura, H.Kobayashi and Y.Kuroda
Direct Information on Structure and Energetic Features of Cu^+-Xe Species Formed in MFI-Type Zeolite at Room Temperature
J. Phys. Chem. Lett., **1** (2010) 2642.

A.Itadani, M.Tanaka, T.Mori, H.Torigoe, H.Kobayashi and Y.Kuroda
Potential for Fixation of N_2 at Room Temperature Utilizing a Copper-Ion-Exchanged MFI-Type Zeolite as an Adsorbent: Evaluation of the Bond Dissociation Energy of Adsorbed NN andthe Bond Strength of the Cu^+-N(N) Species
J. Phys. Chem. Lett., **1** (2010) 2385.

A.Itadani, T.Yumura, T.Ohkubo, H.Kobayashi and Y.Kuroda
Existence of Dual Species Composed of Cu^+ in CuMFI Being Bridged by C_2H_2
Phys. Chem. Chem. Phys., **12** (2010) 6455.

M.Harada, C.Kawasaki, K.Saijo, M.Demizu and Y.Kimura
Photochemical Synthesis of Silver Particles using Water-in-Ionic Liquid Microemulsions in High Pressure CO2
J. Colloid Interface Sci., **343** (2010) 537.

K.Shimura, T.Yoshida and H.Yoshida
Photocatalytic Activation of Water and Methane over Modified Gallium Oxide for Hydrogen Production
J. Phys. Chem. C, **144** (2010) 11466.

A.Yamaguchi, N.Hiyoshi, O.Sato, M.Osada and M.Shirai
Lignin Gasification over Charcoal-Supported Palladium and Nickel Bimetal Catalysts in Supercritical Water
Chem. Lett., **39** (2010) 1251.

K.Maeda, N.Sakamoto, T.Ikeda, H.Ohtsuka, A.Xiong, D.Lu, M.Kanehara, T.Teranishi and K.Domen
Preparation of Core-Shell-Structured Nanoparticles (with a Noble-Metal or Metal Oxide Core and a Chromia Shell) and their Application in Water Splitting by Means of Visible Light
Chem. Eur. J., **16** (2010) 7750.

F.Zhang, K.Maeda, T.Takata and K.Domen
Modification of Oxysulfides with Two Nanoparticulate Cocatalysts to Achieve Enhanced Hydrogen Production from Water with Visible Light
Chem. Comm., **46** (2010) 7313.

Y.Hamabe, S.Jung, H.Suzuki, N.Koizumi and M.Yamada
Quasi *in situ* Ni *K*-Edge EXAFS Investigation of the Spent NiMo Catalyst from Ultra-Deep Hydrodesulfurization of Gas Oil in a Commercial Plant
J. Synchrotron Rad., **17** (2010) 530.

S.Hinokuma, H.Fujii, M.Okamoto, K.Ikeue and M.Machida
Metallic Pd Nanoparticles Formed by Pd-O-Ce Interaction: A Reason for Sintering-Induced Activation for CO Oxidation
Chem. Mater., **22** (2010) 6183.

K.Asakura
Atomic Aspects on Surface Chemical Reactions
Catal. Today, **157** (2010) 2.

V.Diacomanolis, J.C.Ng, R.Sadler, M.Nomura, B.N.Noller and H.H.Harris
Consistent Chemical Form of Cd in Liver and Kidney Tissues in Rats Dosed with a Range of Cd Treatments: XAS of Intact Tissues
Chem. Res. Toxicol., **23** (2010) 1647.