

Y.Takahashi, H.Shimizu, A.Usui, H.Kagi and M.Nomura
 Direct Observation of Tetravalent Cerium in Ferromanganese Nodules and Crusts by X-Ray-Absorption Near-Edge Structure (XANES)
Geochimica et Cosmochimica Acta, **64** (2000) 2929.

H.Ofuchi, M.Tabuchi, A.G.Banshchikov, N.S.Sokolov, N.L.Yakovlev and Y.Takeda
 Fluorescence EXAFS Study on Local Structures around Mn Atoms in MnF₂-CaF₂ Superlattices and Double Hetero-Structures on Si(111)
Appl. Surf. Sci., **117** (2000) 781.

M.Shirai, M.Arai and K.Murakami
 Aggregation and Role of Ion-Exchanged Nickel Species during Pyrolysis of Brown Coal: Influence of Extent of Metal Loading
Energy and Fuels, **14** (2000) 1038.

P.V.Kamat, K.Murakoshi, Y.Wada and S.Yanagida
 Semiconductor Nanoparticles
 Handbook of Nanostructured Materials and Nanotechnology, **6** (2000) 291.

X.Guo and K.Sakurai
 Formation of Yttrium Aluminum Perovskite and Yttrium Aluminum Garnet by Mechanical Solid-State Reaction
Jpn. J. Appl. Phys., **39** (2000) 1230.

M.Matsuura, A.Ashfaq, K.Konno and M.Sakurai
 Preferential Site Occupancy of Zr in Nd₂Fe₁₄B Based Magnets; Effects of Concentration and HDDR Process
Proc. 16th Int. Workshop on Rare-Earth Magnets, **2** (2000) 872.

A.Ashfaq, M.Matsuura and M.Sakurai
 XAFS Study of Zr Site Preference for Nd₁₆Fe_{75.5}Zr_{0.5}B₈ in Disproportionated, Partially/Fully Recombined States of HDDR Process
J. Magn. Magn. Mater., **212** (2000) 368.

T.Hayakawa, K.Nagaya, I.Yamamoto, Y.Ohmasa, M.Yao and M.Nomura
 Photoelectron Photoion Coincidence Measurements of Selenium Clusters Beam I. Evidence for the Coulomb Explosion
J. Phys. Soc. Jpn., **69** (2000) 2039.

M.Kiguchi, T.Yokoyama, D.Matsumura, H.Kondoh, O.Endo and T.Ohta
 Surface Structures and Thermal Vibrations of Ni and Cu Thin Films Studied by Extended X-Ray-Absorption Fine Structure
Phys. Rev. B, **61** (2000) 14020.

H.Ofuchi, M.Tabuchi, A.G.Banshchikov, N.S.Sokolov, N.L.Yakovlev and Y.Takeda
 Fluorescence EXAFS Study on Local Structures around Mn Atoms in MnF₂-CaF₂ Superlattices and Double Hetero-Structures on Si(111)
Appl. Surf. Sci., **159-160** (2000) 220.

H.Ofuchi, T.Kubo, M.Tabuchi, K.Takahei and Y.Takeda
 Local Structures around Er Atoms in GaAs:Er,O Studied by Fluorescence EXAFS and Photoluminescence Microelectronic Engineering, **51-52** (2000) 715.

K.Asakura
 Fluorescence XAFS
Shokubai, **42** (2000) 328. (*in Japanese*).

K.Asakura
 Polarization-Dependent Total Reflection Fluorescence EXAFS Study on the 3-Dimensional Structural Analysis of Surface Active Sites
Hyomen Kagaku, **21** (2000) 294. (*in Japanese*).

T.Moriga, K.Okamura, K.Watanabe and I.Nakabayashi
 Effects of Charge/Discharge of Li_{1-x}Ni_{1-y}Mn_yO₂ on their Crystal Structures and Electronic States
Soc. Mater. Sci. Jpn., **6** (2000) 221.

Y.Inada, Y.Nakano, M.Inamo, M.Nomura and S.Funahashi
 Structural Characterization and Formation Mechanism of Sitting-Atop (SAT) Complexes of 5,10,15,20-Tetraphenylporphyrin with Divalent Metal Ions. Structure of the Cu(II)-SAT Complex as Determined by Fluorescent Extended X-Ray Absorption Fine Structure Inorg. Chem., **39** (2000) 4793.

T.Hayakawa, K.Nagaya, K.Hamada, Y.Ohmasa and M.Yao
 Photoelectron Photoion Coincidence Measurements of Selenium Cluster Beam. II. Photon Energy Dependence
J. Phys. Soc. Jpn., **69** (2000) 2850.

Y.Takahashi, H.Shimizu, H.Yoshida, H.Kagi, A.Usui and M.Nomura
 A New Method for the Determination of Ce(III)/Ce(IV) Ratios in Geological Materials; Application for Weathering, Sedimentary, and Diagenetic Processes
Earth and Planetary Sci. Lett., **182** (2000) 201.

M.Itakura, M.Nishimura, S.Takase, A.Ako, N.Kuwano and K.Oki
 High Pressure Ce-L3 XANES Measurement Using an Asymmetrical Diamond Anvil Cell
 Science and Technology of High Pressure, edited by Murli H. Manghnani, William J. Nellis and Malcolm, **1** (2000) 479.

H.Akinaga, S.Nemeth, J.D.Boeck, L.Nistor, H.Bender, G.Borghs, H.Ofuchi and M.Oshima
 Ferromagnetic Transition in Fe-Doped GaN Grown by Low Temperature Molecular Beam Epitaxy
Appl. Phys. Lett., **77** (2000) 4377.

X.Guo and K.Sakurai
Crystallization of Yttrium Aluminum Perovskite at Around Room Temperature
J. Mater. Sci. Lett., **19** (2000) 451.

K.Nishimaki, T.A.Yamamoto, T.Nakagawa and M.Katsura
Formation of Iron-Nitride/Silver Nanocomposites by Ammonia Flowing Method and Nitride Phase Identification by X-Ray Absorption Near Edge Structure Jpn. J. Appl. Phys., **39** (2000) 1225.

O.Endo, D.Matsumura, K.Kohdate, M.Kiguchi, T.Yokoyama and T.Ohta
In-situ XAFS Studies of Br Adsorption on Silver (111) Electrode
J. Electroanalytical Chem., **494** (2000) 121.

2001

M.Yao, T.Hayakawa, K.Nagaya, K.Hamada, Y.Ohmasa and M.Nomura
A New Method for the Size-Selective EXAFS of Neutral Free Clusters
J. Synchrotron Rad., **8** (2001) 542.

Y.Tanizawa, W.-J.Chun, T.Shido, K.Asakura and Y.Iwasawa
Three-Dimensional Analysis of the Local Structure of Cu on TiO₂(110) by *in situ* Polarization-Dependent Total-Reflection Fluorescence XAFS
J. Synchrotron Rad., **8** (2001) 508.

M.Nomura
Recent Progress of XAFS - Challenge to Dilute Systems and Time-Resolved Experiments
Zairyogakaku, **38** (2001) 2. (*in Japanese*).

T.Yokoyama, K.Okamoto, D.Matsumura, T.Ohta, S.Ohkoshi and K.Hashimoto
Characterization of Relaxed Photo-Excited Magnetized States in Prussian-Blue Analogous Magnets
J. Synchrotron Rad., **8** (2001) 913.

T.Yokoyama
Path-Integral Approach to Anharmonic Vibration of Solids and Solid Interfaces
J. Synchrotron Rad., **8** (2001) 87.

K.Fukumi, A.Chayahara, K.Kakono, H.Kageyama, T.Akai, H.Mizoguchi, N.Kitamura, M.Makihara, Y.Horino and K.Fujii
Coordination Structures of Implanted Fe, Co, and Ni Ions in Silica Glass by X-Ray Absorption Fine Structure Spectroscopy
J. Mater. Res., **16** (2001) 155.

H.Ofuchi, M.Tabuchi, Y.Takeda, F.Matsukura, S.P.Guo, A.Shen and H.Ohno
Fluorescence Extended X-Ray Absorption Fine Structure Study on Local Structures around Mn Atoms in Thin (In,Mn)As Layer and (In,Mn)As Quantum Dots
J. Appl. Phys., **89** (2001) 66.

H.Ofuchi, M.Oshima, M.Tabuchi, Y.Takeda, H.Akinaga, S.Nemeth, J.De Boeck and G.Borghs
Fluorescence X-Ray Absorption Fine Structure Study on Local Structures around Fe Atoms in Heavily Doped GaN by Low-Temperature Molecular-Beam Epitaxy
Appl. Phys. Lett., **78** (2001) 2470.

M.Matsuura, K.Konno and M.Sakurai
Redistribution of Zr in Nanocrystalline Fe₉₀Zr₇B₂Cu₁ and Crystalline Fe₉₇Zr₃: Local Structure around Zr by XAFS
Script Mater., **44** (2001) 2353.

M.Matsuura, K.Konno, M.Sakurai and E.Matsubara
XAFS Study on Zr in the Melt-Quenched Fe₉₉Zr₁ and Ni₉₈Zr₂
Proc. 22th Riso Int. Symposium on Materials Science, **22** (2001) 319.

T.Nasu, F.Araki, O.Uemura, T.Usuki, Y.Kameda, S.Takahashi and K.Tokumitsu
Structural Analysis of Amorphous Ge-Se Alloys Prepared by Mechanical Milling
J. Metastable and Nanocrystalline Materials, **10** (2001) 203.

K.Abe, O.Uemura, T.Usuki, Y.Kameda and M.Sakurai
Local Atomic Arrangement in Amorphous As-Se-Br System
J. Non-Cryst. Solids, **282** (2001) 173.

T.Usuki, O.Uemura, S.Konno, Y.Kameda and M.Sakurai
Structural and Physical Properties of Ag-As-Te Glasses
J. Non-Cryst. Solids, **293-295** (2001) 799.

K.Abe, T.Usuki, O.Uemura, Y.Kameda and M.Sakurai
Short Range Structure in Amorphous As-S-Br System
J. Non-Cryst. Solids, **293-295** (2001) 464.

O.Uemura, T.Usuki, M.Inoue, K.Abe, Y.Kameda and M.Sakurai
Local Atomic Order of Ge-Se-Br Glasses
J. Non-Cryst. Solids, **293-295** (2001) 792.

S.Suzuki, M.Kimura, T.Suzuki and Y.Takagi
Microscopic Formation Process and Local Structure of Reaction Products Formed on Iron Surface by Exposure to Air
J. Surf. Sci. Soc. Jpn., **22** (2001) 253. (*in Japanese*).

M.Kimura
In situ Observation of Surface Reactions at Metal Surfaces by Synchrotron Radiation
Materials Science and Technology, Jpn., **38** (2001) 43. (*in Japanese*).

M.Kimura
In situ Observation by Using X-Ray (In-House and Synchrotron Radiation)
Materials Science and Technology, Jpn., **38** (2001) 201. (*in Japanese*).

M.Yasoshima, M.Matsuo and B.Takano
X-Ray Absorption Fine Structure Measurement of Land Snails as Environmental Monitoring: A Study on Drying Effect
Anal. Sci., **17 suppl.** (2001) i1557.

M.Hirabayashi and M.Matsuo
Characterization of Iron in Airborne Particulate Matter by X-Ray Absorption Fine Structure Technique
Anal. Sci., **17 suppl.** (2001) i1581.

Y.Tanizawa, W.J.Chun, T.Shido, K.Asakura and Y.Iwasawa
Three Dimensional Analysis of the Local Structure of Cu on $TiO_2(110)$ by *in-situ* Polarization-Dependent Total Reflection Fluorescence XAFS
Studies Surf. Sci. Catal., **132** (2001) 757.

T.Kanbara, Y.Kubozono, Y.Takabayashi, S.Fujiki, S.Iida, Y.Haruyama, S.Kashino, S.Emura and T.Akasaka
Dy@ C_{60} : Evidence for Endohedral Structure and Electron Transfer
Phys. Rev. B, **64** (2001) 113403.

Y.Okamoto and T.Kubota
Preparation, Characterization and Catalysis of Intrazeolite Molybdenum, Cobalt and Cobalt-Molybdenum Sulfide Clusters: A Molecular Approach to Hydrodesulfurization Catalysts
Catal. Surv. Jpn., **5** (2001) 3.

M.Inamo, N.Kamiya, Y.Inada, M.Nomura and S.Funahashi
Structural Characterization and Formation Kinetics of Sitting-Atop (SAT) Complexes of Some Porphyrins with Copper(II) Ion in Aqueous Acetonitrile Relevant to Porphyrin Metalation Mechanism. Structures of Aquacopper(II) and Cu(II)-SAT Complexes As Determined by XAFS Spectroscopy
Inorg. Chem., **40** (2001) 5636.

H.Yamaguchi and Y.Tanaka
XAFS Study on Gallium Ions Implanted in Silicon Carbide
J. Synchrotron Rad., **8** (2001) 375.

M.Harada, A.Ue, M.Inoue, X.Guo and K.Sakurai
Formation Yttrium Aluminium Preovskite Fine Powders by a Polymerized Complex Reaction
J. Mater. Sci. Lett., **20** (2001) 741.

W.J.Chun, Y.Tanizawa, T.Shido, Y.Iwasawa, M.Nomura and K.Asakura
Development of an *in-situ* Polarization-Dependent Total Reflection Fluorescence XAFS Measurement System
J. Synchrotron Rad., **8** (2001) 168.

P.Fons,K.Iwata, A.Yamada, K.Matsubara, S.Niki, K.Nakahara, T.Tanabe and H.Takasu
Nucleation and Growth of ZnO on (1120) Sapphire Substrates Using Molecular Beam Epitaxy
J. Cryst. Growth, **227** (2001) 911.

O.Kamishima, K.Ohta, Y.Chiba and T.Hattori
Local Structure Around Yb in $SrZr_{1-x}Yb_xO_3$
J. Phys. Condens. Matter, **13** (2001) 2455.

Yu.A.Babanov, A.V.Ryazhkin and T.Miyanaga
Correction of X-Ray Absorption Spectra for Thickness Inhomogeneity and Fluorescence of Sample
Nucl. Instrum. Meth. Phys. Res. A, **470** (2001) 278.

T.Seto, M.Kawa, K.Sugiyama and M.Nomura
XAFS Studies of Tb or Eu Cored Dendrimer Complexes with Various Properties of Luminescence
J. Synchrotron Rad., **8** (2001) 710.

H.Bang, S.Morishima, Z.Li, K.Akimoto, M.Nomura and E.Yagi,
Incorporation Site of Tb in GaN Studied by Rutherford-Backscattering Ion Channeling Measurements and X-Ray Absorption Fine-Structure Analysis
J. Phys. : Condens. Matter, **13** (2001) 10837.

K.Fukumi, A.Chayahara, H.Kageyama, K.Kadono, N.Kitamura, H.Mizoguchi,Y.Horino and M.Makihara
Coordination Structure of Implanted Manganese Ions in Silica Glass
Mat. Res. Soc. Symp. Proc., **647** (2001) O3.1.1.

S.Ishizuka, S.Kato, T.Maruyama and K.Akimoto
Nitrogen Doping into Cu_2O Thin Films Deposited by Reactive Radio-Frequency Magnetron Sputtering
Jpn. J. Appl. Phys., **40** (2001) 2765.

H.Bang, S.Morishima, Z.Li, K.Akimoto, M.Nomura and E.Yagi
Comparative Study on the Optical Properties of Eu:GaN with Tb:GaN
Phys. Stat. Sol. (b), **228** (2001) 319.

T.Miyajima, T.Hino, S.Tomiya, K.Yanashima, H.Nakajima, T.Araki, Y.Nanishi, A.Satake, Y.Masumoto, K.Akimoto, T.Kobayashi and M.Ikeda
Threading Dislocations and Optical Properties of GaN and GaInN
Phys. Stat. Sol. (b), **228** (2001) 395.

T.Maruyama, Y.Hagio, T.Miyajima, S.Kijima, Y.Nanishi and K.Akimoto
Effects of Annealing on the Interface Properties Between Ni and P-GaN
Phys. Stat. Sol. (a), **188** (2001) 375.

2002

M.Kiguchi, K.Saiki and A.Koma
Dynamic and Static Disorder of Alkali Halide Solid Solutions Studied by Temperature-Dependent Extended X-Ray-Absorption Fine Structure
J. Phys. Soc. Jpn., **71** (2002) 1076.

H.Ofuchi, M.Tabuchi and Y.Takeda
Application of XAFS Measurements to the Study of Semiconductors
J. Surf. Sci. Soc. Jpn., **23** (2002) 367. (*in Japanese*).

S.T.Oyama, X.Wang, Y.-K.Lee, K.Bando and F.G.Requejo
Effect of Phosphous Content in Nickel Phosphide Catalysts Studied by XAFS and other Techniques
J. Catal., **210** (2002) 207.

Y.Takahashi, A.Usui, K.Okumura, T.Uruga, M.Nomura, M.Murakami and H.Shimizu
Application of XANES for the Determination of Oxidation States of Co and Pb in Natural Ferromanganese Nodules
Chem. Lett., **3** (2002) 366.

C.-R.Bian, S.Suzuki, K.Asakura, L.Ping and N.Toshima
Extended X-Ray Absorption Fine Structure Studies on the Structure of the Poly(vinylpyrrolidone)-Stabilized Cu/Pd Nanoclusters Colloidally Dispersed in Solution
J. Phys. Chem. B, **106** (2002) 8587.

P.Fons, K.Nakahara, A.Yamada, K.Iwata, K.Matsubara, H.Takasu and S.Niki
A XANES Study of Cu Valency in Cu-Doped Epitaxial ZnO
Physica Status Solidi B, **229** (2002) 849.

K.Konno, M.Matsuura, N.Ikuta, M.Sakurai and C.Mishima
Site Occupancy of Ga and Nb in Nd_{12.5}Fe_{6.5}Ga_{0.3}Nb_{0.2}B_{6.2} during the Hydrogenation, Disproportionation, Desorption and Recombination Process
J. Appl. Phys., **91** (2002) 7875.

T.Usuki, S.Saito, K.Nakajima, O.Uemura, Y.Kameda, T.Kamiyama and M.Sakurai
Structural and Electrical Properties of AgI Dispersed As-Chalcogenide Glasses
J. Non-Cryst. Solids, **312-314** (2002) 570.

S.Funahashi and Y.Inada
Solvation Structures and Solvent Exchange Reactions of Metal Ions in Various Coordinating Solvents
Bull. Chem. Soc. Jpn., **75** (2002) 1901.

Y.Inada
Construction of Time-Resolved XAFS Instruments and Local Structure Analysis of Reaction Intermediates
Adv. X-ray Chem. Anal. Jpn., **34** (2002) 53. (*in Japanese*).

M.Kimura, M.Kaneko and N.Ohta
In situ Analysis of Pitting Corrosion in Artificial Crevice of Stainless Steel by X-Ray Absorption Fine Structure
ISIJ International, **42** (2002) 1399.

M.Kimura, T.Suzuki, G.Shigesato, H.Kihira and S.Suzuki
Characterization of Nanostructure of Rusts Formed on Weathering Steel
ISIJ International, **42** (2002) 1534.

M.Sakurai
XAFS Study on Non-Crystalline Materials
Houshakou (J. Jpn. Soc. Synchrotron Rad. Res.), **15** (2002) 167. (*in Japanese*).

T.Nakagawa, M.Kano, K.Nishimaki, T.A.Yamamoto and S.Emura
Size Effect on X-Ray Absorption Spectra of Iron Nitride Nano Particles
Proc. 6th Int'l. Conf. Nanostruct. Mater., (2002) NM-969.

N.Viswanadham, T.Shido, T.Sasaki and Y.Iwasawa
Ammonia-Promoted Rhenium-Cluster Formation in CH₃ReO₃-Encapsulated H-ZSM-5 Relevant to the Performance of the Catalytically Selective Oxidation/Ammoxidation of Propene
J. Phys. Chem. B, **106** (2002) 10955.

Y.Takahashi, H.Sakami and M.Nomura
Determination of the Oxidation State of Cerium in Rocks by Ce L_{III}-Edge X-Ray Absorption Near-Edge Structure Spectroscopy
Anal. Chim. Acta, **468** (2002) 345.

H.Bang, S.Morishima, Z.Li, K.Akimoto, M.Nomura and E.Yagi,
MBE Growth of Eu- or Tb-Doped GaN and its Optical Properties
J. Cryst. Growth, **237/239** (2002) 1027.

T.Maruyama, S.Morishima, H.Bang, K.Akimoto and Y.Nanishi
Valence Transition of Eu Ions in GaN Near the Surface
J. Cryst. Growth, **237/239** (2002) 1167.

T.Yokoyama, H.Tokoro, S.Ohkoshi, K.Hashimoto, K.Okamoto and T.Ohta
Photoinduced Phase Transition of RbMnFe(CN)₆ Studied by X-Ray-Absorption Fine Structure Spectroscopy
Phys. Rev. B, **66** (2002) 184111.

M.Sakurai, F.Kakinuma, E.Matsubara and K.Suzuki
Partial Structure Analysis of Amorphous Ge₁₅Te₈₀M₅(M=Cu, Ag and In)
J. Non-Cryst. Solids, **312-314** (2002) 585.

Y.Takahashi
Oxidation State of Cerium in Rocks and its Geochemical Implications
Houshakou (J. Jpn. Soc. Synchrotron Rad. Res.), **15** (2002) 86. (*in Japanese*).

H.Shigemura, M.Tabuchi, H.Kobayashi, H.Sakaebe, A.Hirano and H.Kageyama
Structural and Electrochemical Properties of Li(Fe,Co)_xMn_{2-x}O₄ Solid Solution as 5 V Positive Electrode Materials for Li Secondary Batteries
J. Mater. Chem., **12** (2002) 1882.

M.Kimura, T.Suzuki, G.Sigesato, M.Saito, S.Suzuki, H.Kihira, K.Tanabe and Y.Waseda
Fe(O,OH)₆ Network Structure of Rusts Formed on Weathering Steel Surfaces
J. Jpn. Inst. Metals, **66** (2002) 166. (*in Japanese*).

T.Yokoyama, K.Okamoto, T.Ohta, S.Ohkoshi and K.Hashimoto
Local Structure and Electronic State of the Photomagnetic Material CoW Cyanide Studied by X-Ray-Absorption Fine-Structure Spectroscopy
Phys. Rev. B, **65** (2002) 064438.

Z.Li, H.Bang, G.Piao, J.Sawahata, K.Akimoto, H.Kinoshita and K.Watanabe
Substrate Roughness Dependence of Structural and Optical Properties of Eu-Doped GaN Grown by Gas Source Molecular Beam Epitaxy
J. Cryst. Growth, **234** (2002) 25.

Y.Abiko, N.Nakayama, K.Akimoto and T.Yao
Difference in Luminescence Properties Between Sm Doped ZnS and Eu Doped ZnS
Phys. Stat. Sol. (b), **229** (2002) 339.

S.Ishizuka, S.Kato, Y.Okamoto and K.Akimoto
Control of Hole Carrier Density of Polycrystalline CuO₂ Thin Films by Si Doping
Appl. Phys. Lett., **80** (2002) 950.

Z.Li, H.Bang, G.Piao, J.Sawahata and K.Akimoto
Growth of Eu-Doped GaN by Gas Source Molecular Beam Epitaxy and Its Optical Properties
J. Cryst. Growth, **240** (2002) 382.

H.Bang, G.Piao, J.Sawahata, Z.Li, K.Akimoto and M.Nomura
Growth and Characterization of Er-Doped GaN
Phys. Stat. Sol. (c), **0** (2002) 430.

2003

A.V.Kolobov, J.Tominaga, P.Fons and T.Uruga
Local Structure of Crystallized GeTe Films
Appl. Phys. Lett., **82** (2003) 382.

Y.Yamada, Y.Ichihashi, H.Ando, A.Ueda, H.Shioyama and T.Kobayashi
Simple Preparation Method of Isolated Iron(III) Species on Silica Surface
Chem. Lett., **32** (2003) 208.

H.Tsuno, H.Kagi, Y.Takahashi, T.Akagi and M.Nomura
Spontaneously Induced Reduction of Trivalent Ytterbium in Synthesized Crystal of Calcite.
Chem. Lett., **32** (2003) 500.

N.Ozaki, K.Ohnuma, K.Kakimoto, H.Ohsato, N.Kozu and H.Kishi
Crystallographic Study on Rear-Earth Doped BaTiO₃ Shell Phase for MLCC Application
Ceramic Engineering and Science Proceedings, **24** (2003) 9.

K.Fukumi, A.Chayahara, A.Kinomura, H.Kageyama, K.Kadono, N.Kitamura, J.Nishii and Y.Horino
X-Ray Absorption Fine Structure Study on the Formation of Cu-Br Bonds in (Br + Cu) Ion Implanted Silica Glass
J. Mater. Res., **18** (2003) 885.

K.Ogawa, H.Ofuchi, H.Maki, T.Sonoyama, D.Inoue, M.Tabuchi and Y.Takeda
Local Structures Around Er Atoms Doped in GaAs by Low-Temperature Molecular Beam Epitaxy
Mat. Sci. Semiconductor Proc., **6** (2003) 425.

H.Ofuchi, T.Akane, S.Jinno, Y.Yang, N.Kuno, T.Hirata, M.Tabuchi, Y.Fujiwara and Y.Takeda
Fluorescence EXAFS Analysis for ErP Grown on InP by Organometallic Vapor Phase Epitaxy Using a New Organometal Er(EtCp)₃
Mat. Sci. Semiconductor Proc., **6** (2003) 469.

M.Hirabayashi, M.Matsuo, S.Kobayashi, K.Tanabe and M.Nomura
Analysis of Chemical Species of Airborne Particles Collected at Roadsides with Heavy Traffic
Geochimica et Cosmochimica Acta, **67 suppl.** (2003) A147.

M.Kimura, T.Suzuki, G.Sigesato, S.Suzuki and H.Kihira
Fe(O,OH)₆ Netwrok Structure of Rusts Formed on Weathering Steel
Surf. Interface Anal., **35** (2003) 66.

K.Fukumi, A.Chayahara, H.Kageyama, A.Kinomura, Y.Mokuno, N.Kitamura, K.Kadono, Y.Horino and J.Nishii
Sequential Implantation of Halogen and Copper Ions in Silica Glass
Nucl. Instrum. Meth. Phys. Res. B, **206** (2003) 353.

K.Asakura, C.R.Bing, P.Lu, N.Toshima, N.Watari and S.Ohnishi
Characterization and Catalysis of a CuPd Nanocluster with a Heteroondphilic Structure
Shokubai, **45** (2003) 184. (*in Japanese*).

M.Kataoka, A.Kuno and M.Matsuo
A Study on Vertical Distribution of Elements and their Chemical States in Yatsu Tideland Sediments
J. Radioanal. Nucl. Chem., Articles, **255** (2003) 283.

Y.Takahashi, N.Ohtaku, S.Mitsunobu, K.Yuita, and M.Nomura
Determination of the As(III)/As(V) Ratio in Soil by X-Ray Absorption Near-Edge Structure (XANES) and its Application to the Arsenic Distribution between Soil and Water
Anal. Sci., **19** (2003) 891.

Y.Takahashi, T.Sakashima and H.Shimizu
Observation of Tetravalent Cerium in Zircon and its Reduction by Radiation Effect
Geophys. Res. Lett., **30** (2003) 1137.

K.Fukuda, T.Sasaki, M.Watanabe, I.Nakai, K.Inaba and K.Omote
Novel Crystal Growth from a Two-Dimensionally Bound Nanoscopic System. Formation of Oriented Anatase Nanocrystals from Titania Nanosheets
Crystal Growth & Design, **3** (2003) 281.

T.Usuki, F.Araki, O.Uemura, Y.Kameda, T.Nasu and M.Sakurai
Structure Changes during Amorphization of Ge-Se Alloys by Mechanical Milling
Materials Transactions, **44** (2003) 344.

S.-T.Myung, S.Komaba, N.Hirosaki, N.Kumagai, K.Arai, R.Kodama, Y.Terada and I.Nakai
Emulsion Drying Preparation of Layered $\text{LiMn}_x\text{Cr}_{1-x}\text{O}_2$ Solid Solution and Its Application to Li-Ion Battery Cathode Material
J. Power Sources, **119** (2003) 211.

S.-T.Myung, S.Komaba, N.Hirosaki, N.Kumagai, K.Arai, R.Kodama and I.Nakai
Structural Investigation of Layered $\text{Li}_{1-\delta}\text{Mn}_x\text{Cr}_{1-x}\text{O}_2$ by XANES and *In Situ* XRD Measurements
J. Electrochem. Soc., **150** (2003) A1560.

Z.-W.Jin, Y.-Z.Yoo, T.Sekiguchi, T.Chikyow, H.Ofuchi, H.Fujioka, M.Oshima and H.Koinuma
Blue and Ultraviolet Cathodoluminescence from Mn-Doped Epitaxial ZnO Thin Films
Appl. Phys. Lett., **83** (2003) 39.

H.Ofuchi, M.Mizuguchi, K.Ono, M.Oshima, H.Akinaga and T.Manago
Fluorescence Extended X-Ray Absorption Fine Structure Analysis of Half-Metallic Ferromagnet "Zinc-Blende CrAs" Grown on GaAs by Molecular Beam Epitaxy
Nucl. Instrum. Meth. Phys. Res. B, **199** (2003) 227.

T.Nasu, M.Sakurai and T.Usuki
Exafs Study on Micro-Structure Change of Alloys during Solid State Amorphization Process
Recent Res. Devel. Non-Crystalline Solids, **3** (2003) 97.

L.Wang, Y.Omomo, N.Sakai, K.Fukuda, I.Nakai, Y.Ebina, K.Takada, M.Watanabe and T.Sasaki
Fabrication and Characterization of Multilayer Ultrathin Films of Exfoliated MnO_2 Nanosheets and Polycations
Chem. of Mater., **15** (2003) 2873.

M.Matsuura, M.Sakurai, K.Amiya and A.Inoue
Local Structures around Zn and Y in the Melt-Quenched $\text{Mg}_{97}\text{Zn}_1\text{Y}_2$ Ribbon
J. Alloys and Compounds, **353** (2003) 240.

K.Asada, K.Konno, M.Matsuura, M.Sakurai, A.Fujita and K.Fukamichi
Crystallographic Site of Mn in the Icosahedral Cluster of $\text{LaCo}_{13-x}\text{Mn}_x$ Compounds
J. Alloys and Compounds, **350** (2003) 47.

S.Fukuda, Y.Nakanuma, J.Sakurai, A.Mitsuda, Y.Ishikawa, F.Ishikawa, T.Goto and T.Yamamoto
Application of Doniach Diagram on Valence Transition in $\text{EuCu}_2(\text{Si}_x\text{Ge}_{1-x})_2$
J. Phys. Soc. Jpn., **72** (2003) 3189.

T.Yokoyama, K.Takahashi and O.Sato
Metastable Photoinduced Phase of Cu(II) Ethylenediamine Complexes Studied by X-Ray-Absorption Fine-Structure Spectroscopy
Phys. Rev. B, **67** (2003) 172104.

H.Ofuchi, Y.Imaizumi, H.Sugawara, H.Fujioka, M.Oshima and Y.Takeda
Fluorescence XAFS Study on Local Structures around Tb Ions Implanted in SiO_2 on Si
Nucl. Instrum. Meth. Phys. Res. B, **199** (2003) 231.

K.Okamoto, K.Nagai, J.Miyawaki, H.Kondoh and T.Ohta
XAFS Study on the Photoinduced Spin Transition of $[\text{Fe}(2\text{-pic})_3]\text{Cl}_2\text{-C}_2\text{H}_5\text{OH}$
Chem. Phys. Lett., **371** (2003) 707.

K.Okamoto, K.Kohdate, K.Nagai, J.Miyawaki, H.Kondoh, T.Yokoyama, A.Nojima and T.Ohta
Development of Light-Modulated XAFS Spectroscopy
J. Synchrotron Rad., **10** (2003) 242.

A.V.Kolobov, D.Buechel, P.Fons, T.Shima, M.Kuwahara, J.Tominaga and T.Uruga
Local Structure of AgO_x Thin Layers Generating Optical Near Field: an X-Ray Absorption Fine Structure Study
Jpn. J. Appl. Phys., **42** (2003) 1022.

P.Fons, A.Yamada, K.Iwata, K.Matsubara, S.Niki, K.Nakahara and H.Takasus
An EXAFS and XANES Study of MBE Grown Cu-Doped ZnO
Nucl. Instrum. Meth. Phys. Res. B, **199** (2003) 190.

A.V.Kolobov, H.Oyanagi, A.Frenkel, I.Robinson, J.Cross, S.Wei, K.Brunner, G.Abstreiter, Y.Maeda, A.Shklyaev, M.Ichikawa, S.Yamasaki and K.Tanaka
Local Structure of Ge/Si Nanostructures: Uniqueness of XAFS Spectroscopy
Nucl. Instrum. Meth. Phys. Res. B, **199** (2003) 174.

Y.Okamoto, S.Ishizuka, S.Kato, T.Sakurai, N.Fujiwara, H.Kobayashi and K.Akimoto
Passivation of Defects in Nitrogen-Doped Polycrystalline Cu_2O Thin Films by Crown-Ether Cyanide Treatment
Appl. Phys. Lett., **82** (2003) 1060.

M.Tanaka, H.Yamada, T.Maruyama and K.Akimoto
Well-Width Dependence of Optical Properties of Rare-Earth Ion-Doped $\text{ZnS}_{0.8}\text{Se}_{0.2}$ /Undoped ZnS Multiple Quantum Wells
Phys. Rev. B, **67** (2003) 045305.

A.Uedono, H.Bang, K.Horibe, S.Morishima and K.Akimoto
Defects in Eu- and Tb-Doped GaN Probed Using a Monoenergetic Positron Beam
J. Appl. Phys., **93** (2003) 5181.

M.Hashimoto, A.Yanase, R.Asano, H.Tanaka, H.Bang, K.Akimoto and H.Asahi
Magnetic Properties of Eu-Doped GaN Grown by Molecular Beam Epitaxy
Jpn. J. Appl. Phys., **42** (2003) L1112.

H.Bang, J.Sawahata, G.Piao, M.Tsunemi, H.Yanagihara, E.Kita and K.Akimoto
Magnetic Properties of Rare-Earth Doped GaN
Phys. Stat. Sol. (c), **0** (2003) 2874.

M.Tanaka, S.Morishima, H.Bang, J.S.Ahn, T.Sekiguchi and K.Akimoto,
Low-Energy Charge-Transfer State and Optical Properties of Eu³⁺-Doped GaN
Phys. Stat. Sol. (c), **0** (2003) 2639.

H.Tanaka, M.Hashimoto, S.Emura, A.Yanase, R.Asano, Y.-K.Zhou, H.Bang, K.Akimoto, T.Honma, N.Umesaki and H.Asahi
Magnetic Properties of the Rare-Earth-Doped Semiconductor GaEuN
Phys. Stat. Sol. (c), **0** (2003) 2864.

2004

M.Fukukawa, Y.Takahashi, Y.Hayasaka, Y.Sakai and H.Shimizu
Geochemical Study of ODP Leg 191 Site 1179 Sediments: Direct Observation of Mn and Ce Oxidation States
Proc. of the Ocean Drilling Program, Scientific Results, **191** (2004) 191SR-007.

M.Nomura
XAFS
Bouseikanri, **48** (2004) 258. (*in Japanese*).

Y.Takabayashi, Y.Haruyama, Y.Rikiishi, T.Hosokawa, K.Shibata and Y.Kubozono
Preferred Location of the Dy Ion in the Minor Isomer of Dy@C₈₂ Determined by Dy L_{III}-Edge EXAFS
Chem. Phys. Lett., **388** (2004) 23.

Y.Takada, H.Nitani, M.Yuya, T.Tachibana, T.Nakagawa, T.A.Yamamoto, T.Shimada and S.Emura
Cation Distribution in Co₂Z-Type Hexagonal Barium Ferrite Ba₃Co₂Fe₂₄O₄₁ by XAFS and AXS
The 9th Int. Conf. on Ferrites Proc., (2004) 283.

M.Murakami, Y.Matsumoto, T.Hasegawa, P.Ahmet, K.Nakajima, T.Chikyow, H.Ofuchi, I.Nakai and H.Koinuma
Cobalt Valence States and Origins of Ferromagnetism in Co Soped TiO₂ Rutile Thin Films
J. Appl. Phys., **95** (2004) 5330.

M.Yuasa, K.Oyaizu, A.Yamaguchi and M.Kuwakado
Micellar Cobaltporphyrin Nanorods in Alcohols
J. Am. Chem. Soc., **126** (2004) 11128.

A.V.Kolobov, P.Fons, A.Frenkel, A.L.Ankudinov, J.Tominaga and T.Uruga
Understanding the Phase-Change Mechanism of Rewritable Optical Media
Nature Materials, **3** (2004) 703.

B.R.Dempsey, M.Wrona, J.M.Moulin, G.B.Gloor, F.Jalilehvand, G.Lajoie, G.S.Shaw and B.H.Shilton
Solution NMR Structure and X-Ray Absorption Analysis of the C-Terminal Zinc-Binding Domain of the SecA ATPase
Biochemistry, **43** (2004) 9361.

Y.Okamoto, K.Ochiai, M.Kawano and T.Kubota
Evaluation of the Maximum Potential Activity of Co-Mo/Al₂O₃ Catalysts for Hydrodesulfurization
J. Catal., **222** (2004) 143.

T.Arai, T.Ikemoto, A.Hokura, Y.Terada, T.Kunito, S.Tanabe and I.Nakai
Chemical Forms of Mercury and Cadmium Accumulated in Marine Mammals and Seabirds as Determined by XAFS Analysis
Environ. Sci. Technol., **38** (2004) 6468.

T.Kusakari, T.Sasaki and Y.Iwasawa
Selective Oxidation of Benzene to Phenol with Molecular Oxygen on Rhenium/Zeolite Catalysts
Chem. Commun., (2004) 992.

M.Tada, T.Taniike, L.M.Kantam and Y.Iwasawa
Chiral Self-Dimerization of Vanadium Complexes on a SiO₂ Surface : The First Heterogeneous Catalyst for Asymmetric 2-Naphthol Coupling
Chem. Commun., (2004) 2542.

T.Nobukawa, M.Yoshida, K.Okumura, S.Kameoka, S.Ito, K.Tomishige and K.Kunimori
Selective Catalytic Reduction of N₂O with CH₄ over Fe-BEA Catalysts -Reaction Intermediate and Reaction Mechanism-

Hyomen Kagaku, **25** (2004) 505. (*in Japanese*).

H.Bang, S.Morishima, J.Sawahata, J.Seo, M.Takiguchi, M.Tsunemi, K.Akimoto and M.Nomura,
Concentration Quenching of Eu-Related Luminescence in Eu-Doped GaN
Appl. Phys. Lett., **85**, (2004) 227.

T.Yamamoto
New Characterization Techniques for Catalysts
Shokubai Katsuyo Dai-jiten, **3** (2004) 957. (*in Japanese*).

K.Fukuda, I.Nakai, C.Oishi, M.Nomura, M.Harada, Y.Ebina and T.Sasaki
Nanoarchitecture of Semiconductor Titania Nanosheets Revealed by Polarization-Dependent Total Reflection Fluorescence X-Ray Absorption Fine Structure
J. Phys. Chem. B, **108** (2004) 13088.

K.Kakimoto, I.Masuda and H.Ohsato
Ferroelectricity and Solid-Solution Structure of KNbO₃
Ceramics Doped with La and Fe
Key Eng. Mater., **269** (2004) 7.

K.Kakimoto, I.Masuda and H.Ohsato
Solid-Solution Structure and Piezoelectric Property
of KNbO₃ Ceramics Doped with Small Amounts of
Elements
Jpn. J. Appl. Phys., **43** (2004) 6706.

H.Ohsato, N.Ozaki, K.Ohnuma, Y.Mizuno, T.Hagiwara,
K.Kakimoto and H.Kishi
Solubility of Ho Ions in Ho and Mg Co-Doped BaTiO₃
Analyzed by Rietveld Method and EXAFS
Ferroelectrics, **302** (2004) 265.

I.Masuda, K.Kakimoto and H.Ohsato
Ferroelectric Property and Crystal Structure of KNbO₃-
Based Ceramics
J. Electroceramics, **13** (2004) 555.

M.Tada, T.Taniike, L.M.Kantam, T.Sasaki and
Y.Iwasawa
Design of SiO₂-Supported Chiral V-Complex Catalysts
for Asymmetric 2-Naphthol Coupling
Catalysts and Catalysis, **46** (2004) 75. (*in Japanese*).

M.Sakurai, M.Matsuura, K.Kita, H.Sasaki, J.Nagahora,
T.Kamiyama and E.Matsubara
XAFS and SAXS Analysis for Nano-Structural Origin of
High Strength for Supersaturated Al_{100-x}Fe_x (x=1, 2.5)
Alloys
Mater. Sci. Eng. A, **375-377** (2004) 1224.

M.Sakurai, T.Nasu, Y.Nomura, T.Usuki and
E.Matsubara
Local Structure Change around Ni Atoms in MgNi Alloys
during Mechanical Alloying Process
J. Metastable and Nanocrystalline Materials, **20-21**
(2004) 635.

A.V.Kolobov, P.Fons, J.Tominaga, A.L.Ankudinov,
S.N.Yannopoulos and K.S.Andrikopoulos
Crystallization-Induced Short-Range Order Changes in
Amorphous GeTe
J. Phys.: Condens. Matter, **16** (2004) S5103.

T.Mizoguchi, M.Sakurai, A.Nakamura, K.Matsunaga,
I.Tanaka, T.Yamamoto and Y.Ikuhara
Valence State of Ti in Conductive Nanowires in Sapphire
Phys. Rev. B, **70** (2004) 153101.

K.Fukumi, A.Chayahara, H.Kageyama, N.Kitamura,
K.Kadono, A.Kinomura, Y.Mokuno, Y.Horino and
J.Nishii
Structure of Cu Ions in (Cu + Halogen or Chalcogen)-Ion
Implanted Silica Glasses
Mat. Res. Soc. Symp. Proc., **792** (2004) 99.

M.Matsuura, M.Sakurai, K.Konno and K.Asada
Nano Size Clusters Indicating Precursor of Intermetallic
Compounds in the Supersaturated Fe₉₉Y₁ and Fe₉₉Zr₁
Melt-Quenched Alloys
Mater. Sci. Eng. A, **357-377** (2004) 693.

A.Yamaguchi, M.Yokoyama, A.Suzuki, Y.Iwasawa,
M.Yuasa and M.Abe
Preparation, Characterization, and Catalytic Properties
of Zirconium Containing Mesoporous Silicas, Zr-MCM-
41
J. Jpn. Soc. Colour Mater., **77** (2004) 57.

C.H.Lee, H.Matsuhasha, H.Yamaguchi, C.Sekine,
K.Kihou, T.Suzuki, T.Noro and I.Shirotani
Charge-Density-Wave Ordering in the Metal-Insulator
Transition Compound PrRu₄P₁₂
Phys. Rev. B, **70** (2004) 153105.

T.Usuki, K.Nakajima, T.Furukawa, T.Nasu, M.Sakurai
and S.Kohara
Glass Network Structure in Noble Metal Chalcohalide
Glasses
Solid State Ionics: The Science and Technology of Ions in
Motion, (2004) 835.

Y.Takahashi, R.Minamikawa, K.H.Hattori,
K.Kurishima, N.Kihou and K.Yuita
Arsenic Behavior in Paddy Fields during the Cycle of
Flooded and Non-Flooded Periods
Environ. Sci. Technol., **38** (2004) 1038.

H.Bang, S.Morishima, T.Tsukamoto, Z.Li, J.Sawahata,
J.Seo, M.Takiguchi, Y.Bando and K.Akimoto
Eu Concentration Dependence on Structural and Optical
Properties of Eu-Doped GaN
Phys. Stat. Sol. (b), **241** (2004) 2708.

S.Ishizuka and K.Akimoto
Control of the Growth Orientation and Electrical
Properties of Polycrystalline Cu₂O Thin Films by Group-
IV Elements Doping
Appl. Phys. Lett., **85** (2004) 4920.

H.Kobayashi, Y.Arachi, H.Kageyama, H.Sakaebe,
K.Tatsumi, D.Mori, R.Kanno and T.Kamiyama
Changes in the Structure and Physical Properties of
Li_{1-y}Ni_{0.5}Mn_{0.4}Ti_{0.1}O₂ (y=0 and 0.5)
Solid State Ionics, **175** (2004) 221.

Y.Takahashi, N.Sakakibara and M.Nomura
Direct Determination of the “Organic Extent” of Tin
Species in Environmental Samples by X-Ray Absorption
Near-Edge Structure Spectroscopy
Anal. Chem., **76** (2004) 4307.

T.Ishikawa, K.Ohnuma, K.Kakimoto, H.Ohsato and Y.Mizuno
 Structure Analysis of Eu and Nd Substitution for BaTiO₃ Ceramics
 Extended Abstract of the 12th US-Japan Seminar on Dielectric and Piezoelectric Ceramics, (2005) 345.

T.Okada and M.Harada
 Electrostatic Effects and Involvements of Solvation in Separation of Ions
Bunseki Kagaku, **54** (2005) 27. (*in Japanese*).

H.Hashimoto, J.Tsuji, H.Yokoi, S.Murakami and Y.Hanada
 Local Structure Analyses of Contamination Metals on the Silicon Wafer after LSI Processes using XAFS Technique
Physica Scripta, **T115** (2005) 285.

K.Okamoto, K.Kohdate, K.Nagai, J.Miyawaki, H.Kondoh, T.Yokoyama, A.Nojima and T.Ohta
 Light-Modulated XAFS Spectroscopy for Photo-Induced Structural Changes
Physica Scripta, **T115** (2005) 1050.

T.Yoshida, H.Kagi, H.Tsuno, A.Ohta and M.Nomura
 Oxidation State of Ytterbium Incorporated in Calcium Carbonate and Calcium Fluoride
Chem. Lett., **34** (2005) 852.

H.Ofuchi, J.Okabayashi, M.Mizuguchi, M.Yamada, K.Ono, Y.Takeda, M.Oshima and H.Akinaga
 Fluorescence EXAFS Analysis of Nanoscale Zinc-Blende MnAs Dots Grown on GaAs(001) by Molecular Beam Epitaxy
Physica Scripta, **T115** (2005) 431.

T.Nobukawa, M.Yoshida, K.Okumura, K.Tomishige and K.Kunimori
 Effect of Reductants in N₂O Reduction Over Fe-MFI Catalysts
J. Catal., **229** (2005) 374.

R.Ma, K.Fukuda, M.Osada, T.Sasaki and Y.Bando
 Structural Features of Titanate Nanotubes/Nanobelts Revealed by Raman, X-Ray Absorption Fine Structure and Electron Diffraction Characterizations
J. Phys. Chem. B, **109** (2005) 6210.

T.Sasaki, C.Zhong, M.Tada and Y.Iwasawa
 Immobilized Metal Ion-Containing Ionic Liquids: Preparation, Structure and Catalytic Performance in Kharasch Addition Reaction
Chem. Comm., **2005** (2005) 2506.

T.Nakagawa, Y.Takada, M.Yuya, Y.Fukuta, H.Nitani, T.Tachibana, T.Shimada, S.Kawano, S.Emura and T.A.Yamamoto
 Estimation of Distribution of Magnetic Ions in Co₂Z-Type Barium Ferrite by XAFS, Neutron Diffraction and Anomalous X-Ray Scattering
J. Jpn. Soc. Powder Powder Metallurgy, **52** (2005) 691. (*in Japanese*).

T.Nakagawa, M.Yuya, T.Tachibana, Y.Takada, H.Nitani, S.Emura and T.A.Yamamoto
 XAFS Study on Site Occupation of Cobalt and Iron in Z-Type Ferrite, Ba₃Co_{2-x}Fe_{24+x}O₄₁
J. Magn. Magn. Mater., **288C** (2005) 366.

A.V.Kolobov, P.Fons, J.Tominaga, A.I.Frenkel, A.L.Ankudinov, S.N.Yannopoulos, K.S.Andrikopoulos and T.Uruga
 Why Phase-Change Media are Fast and Stable: A New Approach to an Old Problem
Jpn. J. Appl. Phys., **44** (2005) 3345.

K.Asakura, C.R.Bian, S.Suzuki., W.J.Chun, N.Watari, S.Ohnishi, P.Lu and N.Toshima
 XAFS Study on the Polymer Protected CuPd Bimetallic Nanoparticles – A Novel Heterobond-Philic Structure
Physica Scripta, **T115** (2005) 781.

S.Emura, K.Shirai and Y.Kubozono
 Psuedo Jahn-Teller Effect Observed in Eu@C₆₀
Physica Scripta, **T115** (2005) 507.

Y.Takahashi, G.R.Kolonin, G.P.Shironosova, I.I.Kupriyanova, T.Uruga and H.Shimizu
 Determination of the Eu(II)/Eu(III) Ratios in Minerals by X-Ray Absorption Near-Edge Structure (XANES) and its Application to Hydrothermal Deposits
Mineralogical Magazine, **69** (2005) 177.

T.Nakagawa, Y.Takada, Y.Fukuta, T.Nishio, T.Tachibana, T.Shimada and T.A.Yamamoto
 Anomalous X-Ray Scattering Study on Site Preference of Co and Fe Ions in Hexagonal Z-Type Barium Ferrite
Jpn. J. Appl. Phys., **44** (2005) 994.

K.Hattori, Y.Takahashi, S.Guillot and B.Johanson
 Occurrence of Arsenic(V) in Forearc Mantle Serpentinites Based on X-Ray Absorption Spectroscopy Study
Geochimica et Cosmochimica Acta., **69** (2005) 5585.

A.Kuno, M.Matsuo, Q.Wang and C.J.Zhang
 Iron Speciation of Sediments from Kuhai Lake in China by Mössbauer Spectroscopy
Hyperfine Interact., **166** (2005) 637.

Y.Takahashi, K.Yuita, N.Kihou, H.Shimizu and M.Nomura
 Determination of the Ce(IV)/Ce(III) Ratio by XANES in Soil Horizons and its Comparison with the Degree of the Ce Anomaly
Physica Scripta, **T115** (2005) 936.

D.Masih, K.Aika, Y.Izumi and Y.Seida
Arsenic Speciation and Identification on Active Iron Adsorbent Sites by XAFS Technology
Proc. Environmental Science and Technology 2005, **II** (2005) 435.

H.Tsuno, H.Kagi, Y.Takahashi, T.Akagi and M.Nomura
XAFS Study on the Trace Amounts of Ytterbium Ions Incorporated in Calcium Carbonate Crystal
Physica Scripta, **T115** (2005) 897.

M.Harada, N.Toshima, K.Yoshida and S.Isoda
Aggregated Structure Analysis of Polymer-Protected Platinum/Ruthenium Colloidal Dispersions using EXAFS, HRTEM, and Electron Diffraction Measurements
J. Colloid Interface Sci., **283** (2005) 64.

T.Sasaki, S.Komaba, N.Kumagai and I.Nakai
Synthesis of Hollandite-type $K_y(Mn_{1-x}M_x)O_2$ ($M = Co, Fe$) by Oxidation of Mn (II) Precursor and Preliminary Results on Electrode Characteristics in Rechargeable Lithium Batteries
Electrochim. Solid-State Lett., **8** (2005) A471.

T.Mizoguchi, M.Sakurai, A.Nakamura, T.Sasaki, Y.Sato, K.Matsunaga, T.Yamamoto and Y.Ikuhara
Theoretical and Experimental Ti-K NEXAFS of Various Ti-Oxides
Mater. Sci. Forum, **475-479** (2005) 3119.

R.Bal, M.Tada, T.Kusakari, T.Sasaki and Y.Iwasawa
Direct Phenol Synthesis from Benzene with Molecular Oxygen on Rhenium/Zeolite Catalysts
Catalysts and Catalysis, **47** (2005) 72.

Z.Jin, K.Nakagawa, M.Tanaka, I.Shimoyama, F.Kaneko and T.Murata
Solvation Structure of Bromobenzene Molecule Doped in Supercritical Xenon Studied with Fluorescence XAFS Measurement
Physica Scripta, **T115** (2005) 520.

A.Yamaguchi, T.Hayashi, K.Oyaizu and M.Yuasa
Formation of Active Sites for the NO + CO Reaction over Palladium Catalysts Supported on Mesoporous Silica
Bull. Chem. Soc. Jpn., **78** (2005) 192.

P.Fons, K.Nakahara, A.Yamada, K.Matsubara, K.Iwata, H.Takasu and S.Niki
XAFS Observations of Initial Growth of (0001) ZnO on {11̄20} Sapphire Substrates
Physica Scripta, **T115** (2005) 523.

T.Yamamoto, T.Mizoguchi and I.Tanaka
Core-Hole Effect on Dipolar and Quadrupolar Transitions of SrTiO₃ and BaTiO₃ at Ti *K* Edge
Phys. Rev. B, **71** (2005) 245113.

I.Tanaka, T.Mizoguchi and T.Yamamoto
XANES and ELNES in Ceramic Science
J. American Ceramic Society, **88** (2005) 2013.

K.Sugawara, T.Nobukawa, Y.Noguchi, K.Okumura, S.Ito, K.Tomishige and K.Kunimori
Effect of Reductants in N₂O Reduction and Analysis of Active Sites over Fe-MFI Catalysts
J. Surf. Sci. Soc. Jpn., **26** (2005) 385. (in Japanese).

X.-D.Ma, T.Yokoyama, T.Hozumi, K.Hashimoto and S.Ohkoshi
Electronic States and Local Structures of the Photomagnetic Cu-Mo Cyanides Cu₂Mo(CN)₈·8H₂O and Cs_{0.5}Cu_{1.75}Mo(CN)₈·1.5H₂O Studied by X-Ray Absorption Fine Structure Spectroscopy
Phys. Rev. B, **72** (2005) 094107.

M.Yuasa, A.Yamaguchi, H.Itsuki, K.Tanaka, M.Yamamoto and K.Oyaizu
Modifying Carbon Particles with Polypyrrole for Adsorption of Cobalt Ions as Electrocatalytic Site for Oxygen Reduction
Chem. Mater., **17** (2005) 4278.

A.Yamaguchi, M.Yokoyama, A.Suzuki, Y.Iwasawa, H.Sakai, M.Yuasa and M.Abe
XAFS Study on the Local Structure of Zirconium Containing Mesoporous Silicas, Zr-MCM-41 and their Catalytic Properties
Physica Scripta, **T115** (2005) 834.

S.Matsuo, N.Sakaguchi and H.Wakita
Pre-Edge Features of Ti K-Edge X-Ray Absorption Near-Edge Structure for the Local Structure of Sol-Gel Titanium Oxides
Anal. Sci., **21** (2005) 805.

M.Yuasa, A.Yamaguchi, K.Oyaizu, Y.Fujito, M.Kitao and T.Sato
Cobaltporphyrin-Adsorbed Carbon Black: Highly Efficient Electrocatalysts for Oxygen Reduction
Polym. Adv. Technol., **16** (2005) 702.

Y.Izumi, H.Nagamori, F.Kiyotaki, D.Masih, T.Minato, E.Roisin, J.-P.Candy, H.Tanida and T.Uruga
X-Ray Absorption Fine Structure Combined with X-Ray Fluorescence Spectrometry. Improvement of Spectral Resolution at the Absorption Edges of 9-29 keV
Anal. Chem., **77** (2005) 6969.

M.Matsuura, K.Asada, K.Konno and M.Sakurai
EXAFS Debye-Waller Factors of La and Ni in LaNi₅
J. Alloys and Compounds, **390** (2005) 31.

H.Ofuchi, Z.W.Jin, T.Fukumura, M.Kawasaki, Y.Matsumoto, T.Hasegawa, H.Fujioka, M.Oshima and H.Koinuma
Fluorescence EXAFS Study on Local Structures around Mn and Fe Atoms Doped in ZnO
Physica Scripta, **T115** (2005) 614.

A.Hokura and I.Nakai
Study on Accumulation Mechanism of Arsenic in Chinese Brake Fern by XRF and XAFS analysis utilizing Synchrotron Radiation Microbeam
Bunseki, **2005** (2005) 622. (in Japanese).

S.Mitsunobu, T.Harada, K.Hoshino and Y.Takahashi
X-Ray Absorption Study on the Dominance of Sb(V) as
Secondary Antimony Species in Soil
Chem. Lett., **34** (2005) 1656.

K.Fukuda and I.Nakai
Development of New Techniques for Structure Analysis
of Nanosheet Utilizing Synchrotron Radiation
Science and application of nanosheet Ed. By K.Kuroda
and T.Takayoshi, (2005) 254. (*in Japanese*).

M.Tada and Y.Iwasawa
Chemical Dseign and in-situ Characterization of Active
Surfaces for Selective Catalysis
Annu. Rev. Mater. Res., **35** (2005) 397.

M.Tada, N.Kojima, Y.Izumi, T.Taniike and Y.Iwasawa
Chiral Self-Dimerized Vanadium Complexes on a SiO₂
Surface for Asymmetric Oxidative Coupling of 2-
Naphthol: Structure, Performance, and Mechanism
J. Phys. Chem. B, **109** (2005) 9905.

R.Bal, M.Tada and Y.Iwasawa
Surfactant-Promoted Novel Reductive Synthesis of
Supported Metallic Cu Nanoclusters and Their Catalytic
Performances for Selective Dehydrogenation of Methanol
Chem. Commun., **2005** (2005) 3433.

M.Tada, S.Tanaka and Y.Iwasawa
Enantioselective Diels-Alder Reaction Promoted by
Achiral Functionalization of a SiO₂-Supported Cu-BOX
[Bis(oxazoline)] Catalyst
Chem. Lett., **34** (2005) 1362.

S.Tanaka, M.Tada and Y.Iwasawa
Design of Chiral Cu-BOX Complexes Suported on
a SiO₂ Surface for Asymmetric Diels-Alder Reaction
- Amplification of Enantioselectivity by Surface-
Functionalization with Achiral Organic Molecules
Shokubai, **47** (2005) 430. (*in Japanese*).

Y.Takeda, H.Ofuchi, H.Kyouzu, R.Takahashi and
M.Tabuchi
Lowest Limit for Detection of Impurity Concentration
in Semiconductors by Fluorescence XAFS: Resonant
Raman Scattering and Angle Dependence
J. Synchrotron Rad., **12** (2005) 494.

T.Nasu, Y.Nomura, M.Sakurai and T.Usuki
XAFS Study on Solid State Amorphization Process of
MgNi Alloys
J. Metastable and Nanocrystalline Materials, **24** (2005)
653.

H.Ikemoto, K.Deto and T.Miyanaga
EXAFS Study of the Local Structure for Semimetal-
Semiconductor Transition in Bismuth Clusters
e-J. Surf. Sci. Nanotech., **3** (2005) 370.

J.Sawahata, H.Bang, M.Takiguchi, J.Seo, H.Yanagihara,
E.Kita and K.Akimoto
Structural and Magnetic Properties of Co Doped GaN
Phys. Stat. Sol. (c), **2** (2005) 2458.

J.Sawahata, H.Bang, J.Seo, M.Takiguchi and K.Akimoto
Structural and Optical Properties of Eu- and Tb-Doped
GaN
J. Ceramics Processing Research, **6** (2005) 184.

J.Sawahata, H.Bang, J.Seo and K.Akimoto
Optical Processes of Red Emission from Eu Doped GaN
Science and Technology of Advanced Materials, **6** (2005)
644.

H.Ohsato, M.Suzuki and K.Kakimoto
Ionic Distribution and Microwave Dielectric Properties
for Tungstenbronze-Type like Ba_{6-3x}R_{8+2x}Ti₁₈O₅₄ (R =
Sm, Nd, and La) Solid Solutions
Ceramic Engineering and Science Proc., **26** (2005) 135.

K.Yokoyama, K.Kakimoto, J.Kinoshita, Y.Maeda and
H.Ohsato
Electrical Properties of Quaternary Pyrochlore
Ruthenates for Thick-Film Resistors
Ceramic Engineering and Science Proc., **26** (2005) 203.

H.Kobayashi and K.Tatsumi
Study on the Li De-Intercalation/Intercalation
Mechanism for the Layered Li-Ni-Mn-O Cathode
Material
Battery Technology, **17** (2005) 34. (*in Japanese*).

T.Sakurai, N.Matsumoto, Y.Okada, S.Onari and
K.Akimoto
Influence of Lattice-Matching on Structural Properties of
GaInNAs Epitaxial Films Grown on GaAs
Phys. Stat. Sol. (c), **2** (2005) 2224.

2006

S.Kodama, Y.Takahashi, K.Okumura and T.Uruga
Speciation of Iodine in Solid Environmental Samples
by Iodine K-Edge XANES: Application to Soils and
Ferromanganese Oxides
Science of the Total Environment, **363** (2006) 275.

R.Ma, Z.Liu, K.Takada, K.Fukuda, Y.Ebina, Y.Bando
and T.Sasaki
Tetrahedral Co(II) Coordination in α -Type Cobalt
Hydroxide: Rietveld Refinement and X-Ray Absorption
Spectroscopy
Inorg. Chem., **45** (2006) 3964.

S.-T.Myung, S.Komaba, K.Kurihara, N.Kumagai,
I.Nakai, Y.-K.Sun, M.Yonemura and T.Kamiyama
Synthesis of Li[(Ni_{0.5}Mn_{0.5})_{1-x}Li_x]O₂ by Emulsion
Drying Method and Impact of Excess Li on Structural
and Electrochemical Properties
Chem. Mater., **18** (2006) 1658.

H.Tsuno, A.Ohta, H.Kagi, N.Imai, H.Tao and M.Nomura
Speciation of Chromium in the Artificially Contaminated
Soil Reference Material GSJ JSO-2 using XANES and
Chemical Extraction Methods
Geostandard and Geoanalytical Res., **30** (2006) 55.

T.Kadono, T.Kubota, I.Hiromitsu and Y.Okamoto
Characterization of Highly Dispersed Cobalt Sulfide Catalysts by X-Ray Absorption Fine Structure and Magnetic Properties
Appl. Catal. A, **312** (2006) 125.

N.Miyata, Y.Tani, K.Maruo, H.Tsuno, M.Sakata and K.Iwahori
Manganese(IV) Oxide Production by *Acremonium* sp. Strain KR21-2 and Extracellular Mn(II) Oxidase Activity
Appl. Environ. Microbiol., **72** (2006) 6467.

N.Miyata, K.Maruo, Y.Tani, H.Tsuno, H.Seyama, M.Soma and K.Iwahori
Production of Biogenic Manganese Oxides by Anamorphic Ascomycete Fungi Isolated from Streambed Pebbles
Geomicrobiol. J., **23** (2006) 63.

A.Ohta, H.Tsuno, H.Kagi, Y.Kanai, M.Nomura, R.Zhang, S.Terashima and N.Imai
Chemical Compositions and XANES Speciations of Fe, Mn and Zn from Aerosols Collected in China and Japan during Dust Events
Geochem. J., **40** (2006) 363.

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

K.Fukuda, I.Nakai, Y.Ebina, M.Tanaka, T.Mori and T.Sasaki
Structure Analysis of Exfoliated Unilamellar Crystallites of Manganese Oxide Nanosheets
J. Phys. Chem. B, **110** (2006) 17070.

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).

K.Maeda, K.Teramura, H.Masuda, T.Takata, N.Saito, Y.Inoue and K.Domen
Efficient Overall Water Splitting under Visible-Light Irradiation on $(\text{Ga}_{1-x}\text{Zn}_x)(\text{N}_{1-x}\text{O}_x)$ Dispersed with Rh-Cr Mixed-Oxide Nanoparticles: Effect of Reaction Conditions on Photocatalytic Activity
J. Phys. Chem. B, **110** (2006) 13107.

K.Maeda, K.Teramura, D.Lu, T.Takata, N.Saito, Y.Inoue and K.Domen
Characterization of Rh-Cr Mixed-Oxide Nanoparticles Dispersed on $(\text{Ga}_{1-x}\text{Zn}_x)(\text{N}_{1-x}\text{O}_x)$ as a Cocatalyst for Visible-Light-Driven Overall Water Splitting
J. Phys. Chem. B, **110** (2006) 13753.

H.Nitani, M.Yuya, T.Ono, T.Nakagawa, S.Seino, K.Okitsu, Y.Mizukoshi, S.Emura and T.A.Yamamoto
Sonochemically Synthesized Core-Shell Structured Au-Pd Nanoparticles Supported on $\gamma\text{-Fe}_2\text{O}_3$ Particles
J. Nanopart. Res., **8** (2006) 951.

M.Harada and H.Einaga
Formation Mechanism of Pt Particles by Photoreduction of Pt Ions in Polymer Solutions
Langmuir, **22** (2006) 2371.

M.Matsuura, K.Konno and M.Sakurai
Site Preferences of Zr and Ga during the HDDR Process for $\text{Nd}_2\text{Fe}_{14}\text{B}$ -Based Magnets by XAFS
Int. J. Hydrogen Energ., **31** (2006) 303.

Y.Kadoma, Y.Uchimoto and M.Wakihara
Synthesis and Structural Study on MnO_2 Nanosheet Material by X-Ray Absorption Spectroscopic Technique
J. Phys. Chem. B, **110** (2006) 174.

R.Bal, M.Tada, T.Sasaki and Y.Iwasawa
Direct Phenol Synthesis by Selective Oxidation of Benzene with Molecular Oxygen on a N-Interstitial Re Cluster/Zeolite Catalyst
Angew. Chem. Int. Ed., **45** (2006) 448.

M.Tada, R.Bal, S.Namba and Y.Iwasawa
Surfactant-Promoted Novel Synthesis of Supported Metallic Cu Nanoparticles Active for Selective Dehydrogenation of Methanol
Appl. Catal. A: General, **307** (2006) 78.

M.Tada, R.Bal and Y.Iwasawa
Catalyst Design for Selective Oxidation with Molecular Oxygen by Metal-Complex Attachment
Catal. Today, **117** (2006) 141.

C.Zhong, T.Sasaki, M.Tada and Y.Iwasawa
Ni Ion-Containing Ionic Liquid Salt and Ni Ion-Containing Immobilized Ionic Liquid on Silica: Application to Suzuki Cross-Coupling Reactions between Chloroarenes and Arylboronic Acids
J. Catal., **242** (2006) 357.

M.Tada and Y.Iwasawa
Advanced Catalyst Design with Supported Metal Complexes for Selective Catalysis
Chem. Commun., (2006) 2833.

T.Usuki, K.Nakajima, T.Furukawa, Y.Onodera, T.Nasu, M.Sakurai and S.Kohara
Ionic Conduction Pathways in Noble Metal Chalcogenide Glasses
Solid State Ionics, **177** (2006) 2581.

A.Hokura, R.Omuma, Y.Terada, N.Kitajima, T.Abe, H.Saito, S.Yoshida and I.Nakai
Arsenic Distribution and Speciation in an Arsenic Hyperaccumulator Fern by X-Ray Spectrometry Utilizing a Synchrotron Radiation Source
J. Anal. Atom. Spectrom., **21** (2006) 321.

A.Koizumi, H.Ohnishi, T.Inoue, T.Yamauchi,
I.Yamakawa, H.Ofuchi, M.Tabuchi, A.Nakamura
and Y.Takeda
Surface Morphology of ErP Layers on InP and
 $Ga_{0.52}In_{0.48}P$
Thin Solid Films, **515** (2006) 543.

T.Itai, H.Masuda, Y.Takahashi, M.Mitamura and
M.Kusakabe
Determination of As^{III}/As^V Ratio in Alluvial Sediments
of the Bengal Basin using X-Ray Absorption Near-Edge
Structure
Chem. Lett., **36** (2006) 866.

Y.Takahashi, Y.Kanai, H.Kamioka, A.Ohta,
H.Maruyama, Z.Song and H.Shimizu
Speciation of Sulfate in Size-Fractionated Aerosol
Particles using Sulfur K-Edge X-Ray Absorption Near-
Edge Structure
Environ. Sci. Technol., **40** (2006) 5052.

S.Mitsunobu, T.Harada and Y.Takahashi
Comparison of Antimony Behavior with Arsenic under
Various Soil Redox Conditions
Environ. Sci. Technol., **40** (2006) 7270.

G.Zheng, K.Suzuki, Y.Takahashi, H.Shimizu, A.Kuno
and M.Matsuo
Identification of Pyrite using ⁵⁷Fe Mössbauer
Spectroscopy in Core Sediments from Erhai Lake, SW
China Combined with a Series of Acidic Pre-Treatments
J. Radioanal. Nucl. Chem., **269** (2006) 43.

B.Chowdhury, J.J.B.Suárez, N.Mimura, J.Lu,
K.K.Bando, S.Tsubota and M.Haruta
In situ UV-vis and EPR Study on the Formation
of Hydroperoxide Species during Direct Gas Phase
Propylene Epoxidation over Au/Ti-SiO₂ Catalyst
J. Phys. Chem. B, **110** (2006) 22995.

F.Takano, H.Ofuchi, J.W.Lee, K.Takita and H.Akinaga
Growth and Characterization of Mn-Doped Cubic-GaN
Physica B, **376-377** (2006) 658.

M.Matsuura, K.Konno and M.Sakurai
Application of XAFS for the Studies on the Dilute
Additives in the HDDR Processed Nd₂Fe₁₄B
Materia Jpn., **45** (2006) 18. (*in Japanese*).

M.Osada, Y.Ebina, K.Fukuda, K.Ono, K.Takada,
K.Yamaura, E.Takayama-Muromachi and T.Sasaki
Ferromagnetism in Two-Dimensional Ti_{0.8}Co_{0.2}O₂
Nanosheets
Phys. Rev. B, **73** (2006) 153301.

H.Ofuchi, M.Yamada, J.Okabayashi, M.Mizuguchi,
K.Ono, Y.Takeda, M.Oshima and H.Akinaga
Fluorescence EXAFS Analysis of Local Structures
around Cr Atoms in (Ga,Cr)As
Physica B, **376-377** (2006) 651.

H.Ofuchi, T.Nishiwaki, K.Takaba, K.Ogawa, M.Tabuchi,
Y.Takeda, A.Wakahara, A.Yoshida, T.Ohshima and
H.Ito
Fluorescence EXAFS Study on Local Structures around
Eu Atoms Implanted in Al_xGa_{1-x}N
Physica B, **376** (2006) 496.

J.Sawahata, H.Bang, J.W.Seo, T.Tsukamoto and
K.Akimoto
TEM Observation of Eu-Doped GaN and Fabrication of
N-GaN/Eu:GaN/p-GaN Structure
Optical Materials, **28** (2006) 759.

J.Sawahata, J.W.Seo, M.Takiguchi, D.Saito, S.Nemoto
and K.Akimoto
Effect of V/III Ratio on the Optical Properties of Eu-
doped GaN
Phys. Stat. Sol. (c), **3** (2006) 1911.

J.Sawahata, J.W.Seo, S.Chen, M.Takiguchi, D.Saito,
S.Nemoto and K.Akimoto
Photoluminescence Spectra of Eu-Doped GaN with
Various Eu Concentrations
Appl. Phys. Lett., **89** (2006) 192104.

Y.Izumi, H.Nagamori, F.Kiyotaki, D.Masih, T.Minato,
E.Roisin, J.-P.Candy, H.Tanida and T.Uruga
X-Ray Absorption Fine Structure Combined with X-Ray
Fluorescence Spectrometry. Improvement of Spectral
Resolution at the Absorption Edges of 9-29 keV
(Correction)
Anal. Chem., **78** (2006) 2075.

T.Morishita, H.Konno, Y.Izumi and M.Inagaki
Oxidation State of Vanadium in Amorphous MnV₂O₆
Formed during Discharge-Charge Cycle and the
Improvement of its Synthesis Condition
Solid State Ionics, **177** (2006) 1347.

P.Fons, D.Brewe, E.Stern, A.V.Kolobov and J.Tominaga
Understanding Structural Changes in Phase Change
Memory Alloys
Mater. Res. Soc. Symp. Proc., **918** (2006) 147.

Y.Tohdo, K.Kakimoto, H.Ohsato, H.Yamada and
T.Okawa
Microwave Dielectric Properties and Crystal Structure of
Homologous Compounds ALa₄Ti₄O₁₅ (A = Ba, Sr and
Ca) for Base Station Applications
J. Eur. Ceram. Soc., **26** (2006) 2039.

K.Okamoto, K.Shizuka, T.Akai, Y.Tamaki, K.Okahara
and M.Nomura
X-Ray Absorption Fine Structure Study on Layered
LiMO₂ (M=Ni, Mn, Co) Cathode Materials
J. Electrochem. Soc., **153** (2006) A1120.

2007

T.Yamamoto, A.Suzuki, Y.Nagai, T.Tanabe, F.Dong, Y.Inada, M.Nomura, M.Tada and Y.Iwasawa
Origin and Dynamics of Oxygen Storage/Release in a Pt/Ordered CeO₂-ZrO₂ Catalyst Studied by Time-Resolved XAFS Analysis
Angew. Chem. Int. Ed., **46** (2007) 9253.

Y.Iwama, N.Ichikuni, K.K.Bando and S.Shimazu
Effect of Co Addition for Carburizing Process of Ti-Oxide/SiO₂ into TiC/SiO₂
Appl. Catal. A, **323** (2007) 104.

I.Nakai, H.Tanaka, A.Kitabatake, J.Fukuoka, S.Yamada and N.Ohnishi
Cu K Edge X-Ray Magnetic Circular Dichroism of Amorphous Gd₆₈Cu₃₂
J. Magn. Magn. Mater., **310** (2007) 1868.

T.Kadono, T.Kubota, H.Chatani and Y.Okamoto
Structure of Molybdenum Sulfide Clusters Encaged in Zeolites: Effect of Zeolite Composition
Micropor. Mesopor. Mater., **101** (2007) 191.

W.Wang, F.Takano, H.Akinaga and H.Ofuchi
Structural, Magnetic, and Magnetotransport Properties of Mn-Si Films Synthesized on a 4H-SiC(0001) wafer
Phys. Rev. B, **75** (2007) 165323.

S.Tanaka, M.Tada and Y.Iwasawa
Enantioselectivity Promotion by Achiral Surface Functionalization on SiO₂-Supported Cu-Bis(oxazoline) Catalysts for Asymmetric Diels-Alder Reactions
J. Catal., **245** (2007) 173.

N.Miyata, D.Sugiyama, Y.Tani, H.Tsuno, H.Seyama, M.Sakane and K.Iwahori
Production of Biogenic Manganese Oxides by Repeated-Batch Cultures of Laboratory Microcosms
J. Biosci. Bioeng., **103** (2007) 432.

M.Tada and Y.Iwasawa
Design of Novel Re Catalyst for Direct Phenol Synthesis and Characterization of its Catalytically Active Structure
J. Jpn. Soc. Synchrotron Rad. Res., **20** (2007) 99. (*in Japanese*).

M.Tada, S.Murata, T.Asaka, K.Hiroshima, K.Okumura, H.Tanida, T.Uruga, Y.Inada, M.Nomura, H.Nakanishi, S.Matsumoto and Y.Iwasawa
In-Situ Time-Resolved XAFS Study on Power-on/off Processes of Pt/C Cathode in Fuel Cell
Shokubai, **49** (2007) 93. (*in Japanese*).

K.Maeda, Y.Shimodaira, B.Lee, K.Teramura, D.Lu, H.Kobayashi and K.Domen
Studies on TiN_xO_yF_z as a Visible-Light-Responsive Photocatalyst
J. Phys. Chem. C, **111** (2007) 18264.

K.Maeda, K.Teramura, D.Lu, N.Saito, Y.Inoue and K.Domen
Roles of Rh/Cr₂O₃ (Core/Shell) Nanoparticles Photodeposited on Visible-Light-Responsive (Ga_{1-x}Zn_x)(N_{1-x}O_x) Solid Solutions in Photocatalytic Overall Water Splitting
J. Phys. Chem. C, **111** (2007) 7554.

D.Uki, H.Ohnishi, T.Yamaguchi, Y.Takemori, A.Koizumi, S.Fuchi, T.Ujihara and Y.Takeda
Effect of Li Doping on Photoluminescence from Er,O-codoped GaAs
J. Cryst. Growth, **298** (2007) 69.

H.Ikemoto, T.Miyanaga, S.Yoshida and J.Sogoh
EXAFS Study of Semimetal-Semiconductor Transition of Bismuth Clusters
AIP Conf. Proc., **882** (2007) 437.

S.Sakai, A.Yoshiasa, H.Aarima, M.Okube, C.Numako and T.Sato
XAFS Study of As in K-T Boundary Clay
AIP Conf. Proc., **882** (2007) 274.

T.Hashimoto, A.Yoshiasa, M.sugahara, M.Okube, H.Okudera and A.Nakatsuka
Temperature Dependence of XANES Spectra for ATiO₃, A₂TiO₄ and TiO₂ Compounds with Structureal Phase Transitions
AIP Conf. Proc., **882** (2007) 428.

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-As₂Se₃ Glasses
J. Non-Cryst. Solids, **353** (2007) 3040.

M.Okube, A.Yoshiasa, T.Matsumoto, E.Ito and Y.Terada
Local Stture Analysis around Kr in Minerals by XAFS
AIP Conf. Proc., **882** (2007) 296.

S.Kimura, S.Emura, H.Ofuchi, Y.K.Zhou, S.Hasegawa and H.Asahi
Growth and Characterization of Ferromagnetic Cubic GaCrN: Structural and Magnetic Properties
J. Cryst. Growth, **301** (2007) 651.

T.Nasu, T.Usuki, Y.Onodera, M.Sakurai, B.He, W.Zhong, Z.Wei, S.Wei, W.Zhang and A.Inoue
EXAFS Study on Atomic Distribution Change during Tensile Deformation of Metallic Glass
Mater. Sci. Forum, **539-543** (2007) 1955.

T.Nasu, S.Takahashi, I.Ajiki, T.Usuki, Y.Onodera, M.Sakurai, Z.Wei, A.Inoue, B.He, W.Zhong, Z.Xie and S.Wei
Direct Observation of the Changes in Atomic Arrangement of Cu₅₀Zr₅₀ Metallic Glass during Tensile Deformation by EXAFS
J. Alloys and Compound, **434-435** (2007) 44.

B.O.Leung, F.Jalilehvand and V.Mah
Mercury(II) Penicillamine Complex Formation in Alkaline Aqueous Solution
Dalton Trans., (2007) 4666.

D.Masih, H.Yoshitake and Y.Izumi
Photo-Oxidation of Ethanol on Mesoporous Vanadium-Titanium Oxide Catalysts and the Relation to Vanadium(IV) and (V) Sites
Appl. Catal. A, **325** (2007) 276.

Y.Yamashita, Y.Takahashi, H.Haba, S.Enomoto and H.Shimizu
Comparison of Reductive Accumulation of Re and Os in Seawater-Sediment Systems
Geochimica et Cosmochimica Acta, **71** (2007) 3458.

K.Kubo, K.Kanai, J.Okabayashi, M.Oshima and H.Ofuchi
Formation and Properties of MnAs Magnetic Nanoscaled Dots on Sulfur-Passivated Semiconductor Substrates
J. Cryst. Growth, **301-302** (2007) 619.

W.Wang, F.Takano, H.Ofuchi and H.Akinaga
Epitaxial Growth of bcc Mn Films on 4H-SiC(0001) by Molecular Beam Epitaxy
J. Cryst. Growth, **301-302** (2007) 607.

M.Matsuura, M.Sakurai, W.Zhang and A.Inoue
Local Structures around Zr, Ni, and Cu for the Zr₆₇Cu₃₃ and Zr₆₇Ni₃₃ Metallic Glasses
Mater. Sci. Forum, **539-543** (2007) 1959.

M.Matsuura, K.Konno, K.Asada, M.Sakurai, W.Zhang and A.Inoue
Embrittlement and Local Structures for the Cu-, Ni- and Zr-Based Metallic Glasses
Materials Science and Engineering A, **449-451** (2007) 535.

K.Nitta, D.Kikuchi, T.Miyanaga, K.Takegahara, H.Sugawara and H.Sato
EXAFS Study of Filled Skutterudites PrOs₄Sb₁₂ and LaOs₄Sb₁₂
AIP Conf. Proc., **882** (2007) 265.

M.Tada, R.Bal, T.Sasaki, Y.Uemura, Y.Inada, S.Tanaka, M.Nomura, and Y.Iwasawa
A Novel Re-Cluster/HZSM-5 Catalyst for Highly Selective Phenol Synthesis from Benzene and O₂: Performance and Reaction Mechanism
J. Phys. Chem. C, **111** (2007) 10095.

M.Tanimizu, Y.Takahashi and M.Nomura
Spectroscopic Study on the Anion Exchange Behavior of Cu Chloro-Complexes in HCl Solutions and its Implication to Cu Isotopic Fractionation
Geochem. J., **41** (2007) 291.

T.Nobukawa, K.Sugawara, K.Okumura, K.Tomishige and K.Kunimori
Role of Active Oxygen Transients in Selective Catalytic Reduction of N₂O with CH₄ over Fe-Zeolite Catalysts
Appl. Catal. B, **70** (2007) 342.

K.Fukuda, Y.Ebina, T.Shibata, T.Aizawa, I.Nakai and T.Sasaki
Unusual Crystallization Behaviors of Anatase Nanocrystallites from a Molecularly Thin Titania Nanosheet and its Stacked Forms: Increase in Nucleation Temperature and Oriented Growth
J. Am. Chem. Soc., **129** (2007) 202.

D.Masih, Y.Izumi, K. Aika and Y.Seida
Optimization of an Iron Intercalated Montmorillonite Preparation for the Removal of Arsenic at Low Concentrations
Eng. Life Sci., **7** (2007) 52.

Y.Takahashi, A.Manceau, N.Geoffroy, M.A.Marcus and A.Uusi
Chemical and Structural Control of the Partitioning of Co, Ce, and Pb in Marine Ferromanganese Oxides
Geochim. Cosmochim. Acta, **71** (2007) 984.

M.Tada, Y.Uemura, T.Sasaki, R.Bal, Y.Inada, M.Nomura and Y.Iwasawa
Reaction Mechanism of Direct Phenol Synthesis from Benzene and O₂ on a HZSM-5-Supported N-Interstitial Re-Cluster Catalyst
Shokubai, **49** (2007) 406. (*in Japanese*).

M.Tada, T.Taniike and Y.Iwasawa
Understanding of Novel Surface Events on a Supported Co²⁺-Ensemble Catalyst Promoted by Gas-Phase Molecules: Increases in the Amount and Reactivity of Adsorbed NO by CO Undetectable at the Catalyst Surface
J. Phys. Chem. C, **111** (2007) 11663.

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

H.Ofuchi, W.Wang, F.Takano and H.Akinaga
Fluorescence EXAFS Analysis of SiC:Mn Films Synthesized on SiC Substrates
AIP Conf. Proc., **882** (2007) 443.

H.Ofuchi, N.Ozaki, N.Nishizawa, H.Kinjyo, S.Kuroda and K.Takita
Fluorescence XAFS Study on Local Structure around Cr Atoms Doped in ZnTe
AIP Conf. Proc., **882** (2007) 517.

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 Exchange for the Low Concentrations of Arsenic Removal" [Microporous and Mesoporous Materials 94 (2006) 243]
Micropor. Mesopor. Mater., **99** (2007) 355.

W.Wang, F.Takano, H.Ofuchi and H.Akinaga
Magnetic Properties of Transparent SiC:Mn Films Synthesized on SiC Substrates
J. Magn. Magn. Mat., **310** (2007) 2141.

A.Ikeda, T.Yaita, Y.Okamoto, H.Shiwaku, S.Suzuki, T.Suzuki and Y.Fujii
Extended X-Ray Absorption Fine Structure Investigation of Adsorption and Separation Phenomena of Metal Ions in Organic Resin
Anal. Chem., **79** (2007) 8016.

Y.Takahashi, T.Uruga, K.Suzuki, H.Tanida, Y.Terada and K.H.Hattori
An Atomic Level Study of Rhenium and Radiogenic Osmium in Molybdenite
Geochimica et Cosmochimica Acta, **71** (2007) 5180.

H.Ikemoto, T.Miyanaga, T.Kiuchi
Phase Transitions of Bismuth Clusters
J. Non-Cryst. Solids, **353** (2007) 3394.

J.Sawahata, J.Seo, M.Takiguchi, D.Saito, S.Nemoto and K.Akimoto
Effects of V/III Ratio on Photoluminescence Spectra of Eu-Doped GaN Grown by Molecular Beam Epitaxy
J. Cryst. Growth, **301** (2007) 420.

M.Tanaka, A.Kurita, H.Yamada and K.Akimoto
The Optical Excitation Mechanism in ZnS:Sm³⁺ Grown by Molecular-Beam Epitaxy
Solid State Commun., **142** (2007) 36.

K.Tomishige
Oxidative Steam Reforming of Methane Over Ni Catalysts Modified with Noble Metals
J. Jpn. Petrol. Inst., **50** (2007) 287.

K.Kakimoto, T.Hotta and H.Ohsato
Structural Characterization of Lead-Free(Li, Na, K)NbO₃ Piezoceramics
The 13th US-Japan Seminar on Dielectric and Piezoelectric Ceramics, (2007) 43.

M.Kuriyama, H.Tanaka, S.Ito, T.Kubota, T.Miyao, S.Naito, K.Tomishige and K.Kunimori
Promoting Mechanism of Potassium in Preferential CO Oxidation on Pt/Al₂O₃
J. Catal., **252** (2007) 39.

H.Kobayashi, M.Shikano, S.Koike, H.Sakaebe and K.Tatsumi
Investigation of Positive Electrodes after Cycle Testing of High-Power Li-Ion Battery Cells I. An Approach to the Power Fading Mechanism using XANES
J. Power Sources, **174** (2007) 380.

W.Wang, F.Takano, M.Takenaka, H.Ofuchi and H.Akinaga
Exchange Bias Effect in Fe Films Deposited on Si(100) Substrates
Phys. Stat. Sol. (c), **4** (2007) 4352.

S.Furuta, T.Miyanaga and I.Watanabe
An Abnormally Large EXAFS Debye-Waller Factor for a Mo-O Bond in Hexamolybdate
AIP Conf. Proc., **882** (2007) 141.

M.Harada and H.Einaga
In Situ XAFS Studies of Au Particle Formation by Photoreduction in Polymer Solutions
Langmuir, **23** (2007) 6536.

H.Kobayashi, K.Tatsumi and Y.Arachi
Study on the Relationship between Structure, Thermal Stability, and Electrochemical Property for the Layered Li-Ni-Mn-Co-O Cathode Material
Battery Technology, **19** (2007) 6. (in Japanese).

R.Ma, K.Takada, K.Fukuda, N.Iyi, Y.Bando and T.Sasaki
Topochemical Synthesis of Monometallic (Co²⁺-Co³⁺) Layered Double Hydroxide and its Exfoliation into Positively Charged Co(OH)₂ Nanosheets
Angew. Chem. Int. Ed., **47** (2007) 86.

M.Tada, R.Bal, X.Mu, R.Coquet, S.Namba and Y.Iwasawa
Low-Temperature PROX (Preferential Oxidation) on Novel CeO₂-Supported Cu-Cluster Catalysts under Fuel-Cell Operating Conditions
Chem. Commun., (2007) 4689.

2008

Y.S.Shimamoto and Y.Takahashi
Superiority of K-Edge XANES over L_{III}-Edge XANES in the Speciation of Iodine in Natural Soils
Analytical Sci., **24** (2008) 405.

T.Sasaki, M.Tada, C.Zhong, T.Kume and Y.Iwasawa
Immobilized Metal Ion-Containing Ionic Liquids: Preparation, Structure and Catalytic Performances in Kharasch Addition Reaction and Suzuki Cross-Coupling Reactions
J. Mol. Catal. A: Chemical, **279** (2008) 200.

W.Wang, F.Takano, H.Ofuchi and H.Akinaga
Local Structural, Magnetic and Magneto-Optical Properties of Mn-Doped SiC Films Prepared on a 3C-SiC(001) Wafer
New J. Phys., **10** (2008) 055006.

S.Kimura, S.Emura, Y.Yamauchi, Y.K.Zhou,
S.Hasegawa, and H.Asahi
Low Temperature Molecular Beam Epitaxy Growth of
Cubic GaCrN
J. Cryst. Growth, **310** (2008) 40.

D.Moromachi, A.Kuno and M.Matsuo
Influence of Reclamation on the Concentrations and
Chemical States of Elements in Tideland Sediment
J. Radioanalytical and Nuclear Chemistry, **278** (2008)
495.

W.Li, G.Pan, M.Zhang, D.Zhao, Y.Yang, H.Chen and
G.He
EXAFS Studies on Adsorption Irreversibility of Zn(II)
on TiO₂: Temperature Dependence
J. Colloid and Interface Science, **319** (2008) 385.

L.Yulianti, T.Hamajima, T.Hattori and H.Yoshida
Nonoxidative Coupling of Methane over Supported Ceria
Photocatalysts
J. Phys. Chem. C, **112** (2008) 7223.

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.

A.Ohta, H.Kagi, H.Tsuno, M.Nomomura and I.Kawabe
Influence of Multi-Electron Excitation on EXAFS
Spectroscopy of Trivalent Rare-Earth Ions and
Elucidation of Change in Hydration Number through
the Series
Am. Mineralo., **93** (2008) 1384.

K.Nitta, Y.Omori, D.Kikuchi, T.Miyanaga,
K.Takegahara, H.Sugawara and H.Sato
Local Static Distortion of Rare Earth ions in ROs₄Sb₁₂
(R=La,Ce,Pr,Nd,Sm) by Extended X-Ray Absorption
Fine Structure
J. Phys. Soc. Jpn., **77** (2008) 063601.

T.Kashiwabara, S.Mistunobu, A.Das, T.Itai,
M.Tanimizu and Y.Takahashi
Oxidation States of Antimony and Arsenic in Marine
Ferromanganese Oxides Related to Their Fractionation
in Oxic Marine Environment
Chem. Lett., **37** (2008) 756.

N.Sakai, K.Fukuda, Y.Omomo, Y.Ebina, K.Takada and
T.Sasaki
Hetero-Nanostructured Films of Titanium and
Manganese Oxide Nanosheets: Photoinduced Charge
Transfer and Electrochemical Properties
J. Phys. Chem. C, **112** (2008) 5197.

S.Kimura, S.Emura, K.Tokuda, Y.Hiromura,
S.Hayakawa, Y.K.Zhou, S.Hasegawa and H.Asahi
Growth and Characterization of InCrN and (In,Ga,Cr)N
Physica Status Solidi C, **5** (2008) 1532.

M.Uo, K.Asakura, K.Tamura, Y.Totsuka, S.Abe,
T.Akasaka and F.Watari
XAFS Analysis of Ti and Ni Dissolution from Pure Ti,
Ni-Ti Alloy, and SUS304 in Soft Tissues
Chem. Lett., **37** (2008) 958.

X.Yang, K.Takada, M.Itose, Y.Ebina, R.Ma, K.Fukuda
and T.Sasaki
Highly Swollen Layered Nickel Oxide with a Trilayer
Hydrate Structure
Chem. Mater., **20** (2008) 479.

S.Mitsunobu, Y.Takahashi and Y.Sakai
Abiotic Reduction of Antimony(V) by Green Rust
(Fe₄(II)Fe₂(III)(OH)₁₂SO₄·3H₂O)
Chemosphere, **70** (2008) 942.

C.Jin, Y.Li, Y.Li, Y.Zou, G.L.Zhang, M.Nomura and
G.Y.Zhu
Blood Lead: Its Effect on Trace Element Levels and Iron
Structure in Hemoglobin
Nucl. Instrum. Meth. Phys. Res. B, **266** (2008) 3607.

T.Harada and Y.Takahashi
Origin of the Difference in the Distribution Behavior of
Tellurium and Selenium in a Soil-Water System
Geochimica et Cosmochimica Acta, **72** (2008) 1281.

F.Jalilehvand and L.J.Laffin
Structure of Hydrated Platinum(II) Ion and the Cis-
Diammineplatinum(II) Complex in Acidic Aqueous
Solution: An EXAFS Study
Inorg. Chem., **47** (2008) 3248.

V.Mah and F.Jalilehvand
Mercury(II) Complex Formation with Glutathione in
Alkaline Aqueous Solution
J. Biol. Inorg. Chem., **13** (2008) 541.

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.

M.Handa, H.Ishida, K.Ito, T.Adachi, T.Ikeue,
I.Hiromitsu, M.Mikuriya and K.Kasuga
Synthesis and Magnetic Properties of Polymeric
Complexes Containing Ruthenium(II)-Ruthenium(III)
Tetracarboxylato Units Linked by Cyanato,
Thiocyanato, and Selenocyanato Ligands
Chemical Papers, **62** (2008) 410.

M.Uo
Elemental Analysis Using X-Ray
J. Dental Engineering, **167** (2008) 34. (*in Japanese*).

A.Saikubo, J.Igaki, R.Kometani, K.Kanda and S.Matsui
XAFS Measurement of Gallium in DLC Thin Film
Fabricated by FIB-CVD Method
Diamond and Related Materials, **17** (2008) 659.

M.Kubota, Y.Kanazawa, K.Nasu, S.Moritake, H.Kawaji,
T.Atake and Y.Ichiyanagi
Effect of Heat Treatment on Magnetic MgFe_2O_4
Nanoparticles
J. Therm. Anal. Cal., **92** (2008) 461.

K.Kakimoto
Material Design of Alkaline Niobate Piezoelectric
Ceramics
Key Engineering Materials, **368** (2008) 1879.

T.Hotta, K.Kakimoto and H.Ohsato
Temperature Dependence of Raman Spectrum of Lead-Free Piezoelectric $(\text{Na}_{0.5}\text{K}_{0.5})\text{NbO}_3\text{-LiNbO}_3$ Ceramics
Key Engineering Materials, **368** (2008) 1893.

S.Mitsunobu, Y.Sakai and Y.Takahashi
Characterization of Fe(III) (hydr)oxides in Arsenic Contaminated Soil Under Various Redox Conditions by XAFS and Mössbauer Spectroscopies
Applied Geochemistry, **23** (2008) 3236.

T.Itai, Y.Takahashi, T.Uruga, H.Tanida and A.Iida
Selective Detection of Fe and Mn Species at Mineral Surfaces in Weathered Granite by Conversion Electron Yield X-Ray Absorption Fine Structure
Applied Geochemistry, **23** (2008) 2667.

S.Mitsunobu and Y.Takahashi
XAFS Study on the Behaviors of Antimony and Arsenic in Soil-Water System under Various Redox Conditions
Geochim. Cosmochim. Acta, **72** (2008) A638.

K.Tanaka, Y.Takahashi and H.Shimizu
Local Structure of Y and Ho in Calcite and its Relevance to Y Fractionation from Ho in Partitioning between Calcite and Aqueous Solution
Chemical Geology, **248** (2008) 104.

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

M.Okube, Y.Furukawa, A.Yoshiasa, T.Hashimoto,
M.Sugahara and A.Nakatsuka
Oxidation State and Effective Pair Potential of Fe^{4+} Ions in Perovskite-Type SrFeO_3 Annealed under High Oxygen Pressure
J. Phys.: Conf. Ser., **121** (2008) 092004.

T.Hashimoto, A.Yoshiasa, M.Sugahara, H.Arima,
H.Fukui, K.Murai and M.Okube
Temperature Dependence of EXAFS Debye-Waller Factor in the High Pressure Perovskite SrGeO_3
J. Phys.: Conf. Ser., **121** (2008) 102002.

2009

A.Ohta, H.Kagi, M.Nomura, H.Tsuno and I.Kawabe
Coordination Study of Rare Earth Elements on Fe Oxyhydroxide and Mn Dioxides: Part II. Correspondence of Structural Change to Irregular Variations of Partitioning Coefficients and Tetrad Effect Variations Appearing in the Interatomic Distances
Am. Mineral., **94** (2009) 476.

V.Petrykin, K.Macounova, M.Okube, J.Franc and P.Krtík
Analysis of Local Structure of $\text{Ru}_{1-x}\text{Ni}_x\text{O}_2$ Electrocatalytic Materials
J. Phys.: Conf. Ser., **190** (2009) 012166.

T.Kamegawa, T.H.Kim, J.Morishima, M.Matsuoka and M.Anpo
Preferential Oxidation of CO Impurities in the Presence of H_2 on NiO-Loaded and Unloaded TiO_2 Photocatalysts at 293 K
Catal. Lett., **129** (2009) 7.

M.Harada, K.Saijo, N.Sakamoto and H.Einaga
Small-Angle X-Ray Scattering Study of Metal Nanoparticles Prepared by Photoreduction in Aqueous Solutions of Sodium Dodecyl Sulfate
Colloids and Surfaces A, **345** (2009) 41.

T.Yao, W.Yan, Z.Sun, Z.Pan, B.He, Y.Jiang, H.Wei, M.Nomura, Y.Xie, Y.Xie, T.Hu and S.Wei
High-Temperature Ferromagnetism of Hybrid Nanostructure $\text{Ag-Zn}_{0.92}\text{Co}_{0.08}\text{O}$ Dilute Magnetic Semiconductor
J. Phys. Chem. C, **113** (2009) 3581.

H.Yoshikawa, S.Hamanaka, Y.Miyoshi, Y.Kondo, S.Shigematsu, N.Akutagawa, M.Sato, T.Yokoyama and K.Awaga
Rechargeable Batteries Driven by Redox Reactions of Mn₁₂ Clusters with Structural Changes: XAFS Analyses of the Charging/Discharging Processes in Molecular Cluster Batteries
Inorg. Chem., **48** (2009) 9057.

H.Yamada, M.Tabuchi, Y.Takeda and H.Udono
Fluorescence EXAFS Study of Residual Ga in $\beta\text{-FeSi}_2$ Grown from Ga Solvent
J. Phys.: Conf. Ser., **190** (2009) 012069.

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.

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

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.

K.Nitta, Y.Omori, T.Miyanaga, K.Takegahara,
H.Sugawara, D.Kikuchi and H.Sato
EXAFS Study of Filled Skutterudites
 RT_4Sb_{12} (R:La,Ce,Pr,Nd,Sm, T:Fe,Ru,Os)
J. Phys.: Conf. Ser., **190** (2009) 012098.

Y.Jiang, W.Yan, Z.Sun, Q.Liu, Z.Pan, T.Yao, Y.Li, Z.Qi,
G.Zhang, P.Xu, Z.Wu and S.Wei
Experimental and Theoretical Investigations on
Ferromagnetic Nature of Mn-Doped Dilute Magnetic
Semiconductors
J. Phys.: Conf. Ser., **190** (2009) 012100.

Y.Izumi, T.Itoi, S.Peng, K.Oka and Y.Shibata
Site Structure and Photocatalytic Role of Sulfur
or Nitrogen-Doped Titanium Oxide with Uniform
Mesopores under Visible Light
J. Phys. Chem. C, **113** (2009) 6706.

Y.Ohgi, H.Kagi, K.Kamada, A.Ohta, H.Arima,
A.Yoshikawa and K.Sugiyama
Crystal Growth and Structural Characterizations of Ce-
Doped $Gd_{9.33}(SiO_4)_6O_2$ Single Crystals
J. Cryst. Growth, **311** (2009) 526.

K.Takanabe, T.Uzawa, X.Wang, K.Maeda,
M.Katayama, J.Kubota, A.Kudo and K.Domen
Enhancement of Photocatalytic Activity of Zinc-
Germanium Oxynitride Solid Solution for Overall Water
Splitting under Visible Irradiation
Dalton Trans., (2009) 10055.

T.Yoshida, S.Muto, L.Yuliati, H.Yoshida and Y.Inada
Formation of Germanium Nanoparticles in Silica Glass
Studied by Optical Absorption and X-Ray Absorption
Fine Structure Analysis
Nucl. Instrum. Meth. Phys. Res. B, **267** (2009) 1368.

Y.Okamoto, A.Kato, Usman, N.Rinaldi, T.Fujikawa,
H.Koshika, I.Hiromitsu and T.Kubota
Effect of Sulfidation Temperature on the Intrinsic
Activity of Co-MoS₂ and Co-WS₂ Hydrodesulfurization
Catalysts
J. Catal., **265** (2009) 216.

K.Tanaka, Y.Takahashi and H.Shimizu
Determination of the Host Phase of Rare Earth Elements
in Natural Carbonate using X-Ray Absorption Near-
Edge Structure
Geochemical J., **43** (2009) 143.

M.Kimura, K.Uemura, T.Nagai, Y.Niwa, Y.Inada and
M.Nomura
In situ Observation of RedOx Reactions of Pd/Sr-Fe-O
Catalysts for Automotive Emission
J. Phys.: Conf. Ser., **190** (2009) 012163.

M.Uo, F.Watari, K.Asakura, N.Katayama, S.Onodera,
H.Tohyama, K.Hamada and S.Ohnuki
Analysis of Wear Debris Generated from the Metal-on-
Metal Hip Joint
Nano Biomedicine, **1** (2009) 133.

B.Mongkhonsin, W.Nakbanpote, N.Jearanaikoon,
I.Nakai and A.Hokura
Mechanism of Chromium Accumulation in Gynura
pseudochina (L.) DC. Studied by Synchrotron Based X-
Ray Absorption Fine Structure (XAFS) Analysis and X-
Ray Fluorescence (XRF) Techniques
Int. Conf. Green and Sustainable Innovation (ICGSI)
Proc., (2009) 611.

N.Panitlertumpai, K.Sukadeetad, W.Nakbanpote,
A.Sangdee, I.Nakai and A.Hokura
The Potential of Zinc Accumulation in Gynura
Pseudochina (L.) DC.: Study in a Tissue Culture System
Int. Conf. Green and Sustainable Innovation (ICGSI)
Proc., (2009) 886.

S.Langley, A.G.Gault, A.Ibrahim, Y.Takahashi,
R.Renaud, D.Fortin, I.D.Clark and F.G.Ferris
Sorption of Strontium onto Bacteriogenic Iron Oxides
Environ. Sci. Technol, **43** (2009) 1008.

K.Shozugawa, A.Kuno, H.Miura and M.Matsuo
⁵⁷Fe Mössbauer Study of Specific Iron Species in the
Antarctic Ocean Sediments
J. Nuclear and Radiochem. Sci., **10** (2009) 13.

K.Kojima, I.Kasuga, F.Kurisu and H.Fueumai
Evaluation of Zinc Speciation in Combined Sewer
Sediments with XAFS Analysis and Sequential
Extraction Method
Environmental Engineering Research, **46** (2009) 187. (*in
Japanese*).

K.Motokura, M.Tada and Y.Iwasawa
Organofunctionalized Catalyst Surfaces Highly Active
and Selective for Carbon-Carbon Bond-Forming
Reactions
Catalysis Today, **147** (2009) 203.

K.Yamamoto, T.Imaoka, W.-J.Chun, O.Enoki, H.Katoh,
M.Takenaga and A.Sonoi
Size-Specific Catalytic Activity of Platinum Clusters
Enhances Oxygen Reduction Reactions
Nature Chemistry, **1** (2009) 397.

H.Tsunoyama, N.Ichikuni, H.Sakurai and T.Tsukuda
Effect of Electronic Structures of Au Clusters Stabilized
by Poly(*N*-Vinyl-2-Pyrrolidone) on Aerobic Oxidation
Catalysis
J. Am. Chem. Soc., **131** (2009) 7086.

M.Harada, K.Saijo and N.Sakamoto
Characterization of Metal Nanoparticles Prepared
by Photoreduction in Aqueous Solutions of Various
Surfactants using UV-VIS, EXAFS and SAXS
Colloids and Surfaces A, **349** (2009) 176.

A.Ohta, H.Kagi, M.Nomura, H.Tsuno and I.Kawabe
Coordination Study of Rare Earth Elements on Fe Oxyhydroxide and Mn Dioxides: I. Influence of a Multi-Electron Excitation on EXAFS Analyses for La, Pr, Nd, and Sm
Am. Mineral., **94** (2009) 467.

2010

Y.Fujimoto
Local Structure of Infrared Bismuth Luminescent Center in Bismuth-Doped Silica Glass
J. Am. Ceram. Soc., **93** (2010) 581.

K.Oka, Y.Shibata, T.Itoi and Y.Izumi
Synthesis and Site Structure of a Replica Platinum-Carbon Composite Formed Utilizing Ordered Mesopores of Aluminum-MCM-41 for Catalysis in Fuel Cells
J. Phys. Chem. C, **114** (2010) 1260.

S.Mitsunobu, Y.Takahashi and Y.Terada
 μ -XANES Evidence for the Reduction of Sb(V) to Sb(III) in Soil from Sb Mine Tailing
Environ. Sci. Technol., **44** (2010) 1281.

M.Ishikawa, M.Sekine, T.Usuki and T.Nasu
Ionic Conduction and Local Structure in AgI-As₂Se₃ Glasses
J. Phys. Soc. Jpn., **79** (2010) 137.

D.N.Lobo, K.R.Priolkar, P.A.Bhobe, D.Krishnamurthy and S.Emura
Correlation between Local Structural Distortions and Martensitic Transformation in Ni-Mn-In Alloys
Appl. Phys. Lett., **96** (2010) 232508.

M.Uo, K.Asakura, K.Watanabe and F.Watari
XAES Analysis of the Bronchoalveolar Lavage Fluid of a Tungsten Carbide Pneumoconiosis Patient
Chem. Lett., **39** (2010) 852.

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)

M.Hatayama, K.Shinoda and C.Inoue
Investigation of Arsenic Accumulation and Senescence by Measuring Possible Indicators of Arsenic Stress in *Pteris Vittata*
The 4th International Conference on Bioinformatics and Biomedical Engineering, (2010)

D.Shigeoka, H.Katayanagi, Y.Moro, S.Kimura, T.Hiroki, T.Mashino and Y.Ichiyanagi
Production of Co-Ti Ferrite Nanoparticles for Use as Agents in Hyperthermia Treatment
J. Phys.: Conf. Ser., **200** (2010) 122002.

Y.Ichiyanagi, Y.Moro, H.Katayanagi, S.Kimura, D.Shigeoka, T.Hiroki and T.Mashino
Magnetic and thermal analysis of MFe₂O₄ (M = Co, Mn, Zn) Nanoparticles
J. Therm. Anal. Calorim., **99** (2010) 83.

T.Itai, Y.Takahashi, A.A.Seddiqe, T.Maruoka and M.Mitamura
Variations in the Redox State of As and Fe Measured by X-Ray Absorption Spectroscopy in Aquifers of Bangladesh and their Effect on As Adsorption
Applied Geochemistry, **25** (2010) 34.

H.Nagatani, H.Tanida, M.Harada, M.Asada and T.Sagara
Polarized Total-Reflection X-Ray Absorption Fine Structure of Zinc(II) Porphyrin at the Heptane-Water Interface
J. Phys. Chem. C, **114** (2010) 18583.

M.Tada, Y.Uemura, R.Bal, Y.Inada, M.Nomura and Y.Iwasawa
In situ Time-Resolved DXAFS for the Determination of Kinetics of Structural Changes of H-ZSM-5-Supported Active Re-Cluster Catalyst in the Direct Phenol Synthesis from Benzen and O₂
Phys. Chem. Chem. Phys., **12** (2010) 5701.

L.Wang, Y.-F.Li, L.Zhou, Y.Liu, L.Meng, K.Zhang, X.Wu, L.Zhang, B.Li and C.Chen
Characterization of Gold Nanorods in vivo by Integrated Analytical Techniques: Their Uptake, Retention, and Chemical Forms
Anal. Bioanal. Chem., **396** (2010) 1105.

S.Hayakawa, Y.Kubouchi, T.Hayashi, T.Onakado, H.Namatame and T.Hirokawa
X-Ray Absorption Near Edge Structure Study on Valence Changes of Ni and Co in Li_{1-x}Ni_{0.82}Co_{0.15}M_{0.03}O₂ (M = Nb, Ti) Cathode Materials
Electrochemistry, **78** (2010) 454.

K.Tanaka, Y.Tani, Y.Takahashi, M.Tanimizu, Y.Suzuki, N.Kozai and T.Ohnuki
A Specific Ce Oxidation Process during Sorption of Rare Earth Elements on Biogenic Mn Oxide Produced by *Acremonium* sp. Strain KR21-2
Geochim. Cosmochim. Acta, **74** (2010) 5463.

Y.-F.Li, X.Wang, L.Wang, B.Li, Y.Gao and C.Chen
Direct Quantitative Speciation of Selenium in Selenium-Enriched Yeast and Yeast-Based Products by X-Ray Absorption Spectroscopy Confirmed by HPLC-ICP-MS
J. Anal. At. Spectrom., **25** (2010) 426.

K.Maeda, D.Lu, K.Teramura and K.Domen
Simultaneous Photodeposition of Rhodium-Chromium Nanoparticles on a Semiconductor Powder: Structural Characterization and Application to Photocatalytic Overall Water Splitting
Energy Environ. Sci., **3** (2010) 471.

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.

Y.Moro, H.Katayanagi, S.Kimura, D.Shigeoka, T.Hiroki, T.Mashino and Y.Ichiyanagi
Size Control of Mn-Zn Ferrite Nanoparticles and their XAFS Spectra
Surf. Interface Anal., **42** (2010) 1655.

P.S.R.Murthy, K.R.Priolkar, P.A.Bhobe, A.Das, P.R.Sarode and A.K.Nigam
Disorder Induced Negative Magnetization in LaSrCoRuO₆
J. Magn. Magn. Mater., **322** (2010) 3704.

E.M.Opiso, T.Sato, K.Morimoto, A.Asai, S.Anraku, C.Numako and T.Yoneda
Incorporation of Arsenic during the Formation of Mg-Bearing Minerals at Alkaline Condition
Minerals Engineering, **23** (2010) 230.

T.Kashiwabara, S.Mitsuo, A.Hokura, N.Kitajima, T.Abe and I.Nakai
In vivo Micro X-Ray Analysis Utilizing Synchrotron Radiation of the Gametophytes of Three Arsenic Accumulating Ferns, *Pteris vittata* L., *Pteris vittata* L. and *Athyrium yokoscense*, in Different Growth Stages
Metallomics, **2** (2010) 261.

Y.Takahashi, M.Yamamoto, Y.Yamamoto and K.Tanaka
EXAFS Study on the Cause of Enrichment of Heavy REEs on Bacterial Cell Surfaces
Geochim. Cosmochim. Acta, **74** (2010) 5443.

M.Uo, K.Asakura, E.Watanabe, I.Hayashi, T.Yanagi, H.Shimizu and F.Watari
A Study of Zinc Contained in Yellow and Black Discolored Nails by X-Ray Fluorescence and X-Ray Absorption Fine Structure Analyses
Nano Biomedicine, **2** (2010) 103.

K.Tanaka, Y.Takahashi, K.Horie, H.Shimizu and T.Murakami
Determination of the Oxidation State of Radiogenic Pb in Natural Zircon using X-Ray Absorption Near-Edge Structure
Phys. Chem. Minerals, **37** (2010) 249.