

K.Hirota, N.Oumi, T.Matsumura, H.Nakao, Y.Wakabayashi, Y.Murakami and Y.Endoh
Direct Observation of Antiferroquadrupolar Ordering:
Resonant X-Ray Scattering Study of DyB₂C₂
Phys. Rev. Lett., **84** (2000) 2706.

M.Noguchi, A.Nakazawa, S.Oka, T.Arima, Y.Wakabayashi, H.Nakao, and Y.Murakami
Synchrotron X-Ray-Diffraction Study of Orbital
Ordering in YVO₃
Phys. Rev. B, **62** (2000) R9271.

T.Shimura, T.Hosoi and M.Umeno
Analysis of Ordered Structure of Buried Oxide Layers in
SIMOX Wafers
Proc. of the 19th Inter. Sympo. Silicon-on-Insulator
Tech. and Devices, **99-3** (2000) 155.

T.Shimura, T.Hosoi and M.Umeno
Characterization of SOI Wafers by X-Ray CTR
Scattering
J. Cryst. Growth, **210** (2000) 98.

T.Shimura, T.Hosoi and M.Umeno
Ordered SiO₂ in the Buried Oxide of SIMOX SOI Wafers
Proc. of the 4th Symp. on Atomic-scale Surface and
Interface Dynamics, **4** (2000) 395.

T.Shimura, T.Hosoi and M.Umeno
The Crystalline SiO₂ Phase in the BOX Layers of SIMOX
Wafers
The 3rd SANKEN Int. Symp. on Advanced
Nanoelectronics: Devices, Materials, and Computing, **57**
(2000) 128.

M.Takahashi, Y.Hayashi, J.Mizuki, K.Tamura, T.Kondo, H.Naohara and K.Uosaki
Pseudomorphic Growth of Pd Monolayer on Au(111)
Electrode Surface
Surf. Sci., **461** (2000) 213.

H.Nakao, K.Ohwada, N.Takesue, Y.Fujii, M.Isobe, Y.Ueda, M.V.Zimmermann, J.P.Hill, D.Gibbs, J.C.Woicik, I.Koyama and Y.Murakami
X-Ray Anomalous Scattering Study of a Charge-Ordered
State in NaV₂O₅
Phys. Rev. Lett., **85** (2000) 4349.

H.Abe, Y.Matsuo, H.Saitoh, T.Kusawake, K.Ohshima and H.Nakao
Atomic Short-Range Order in an Al₇₂Ni₂₀Co₈ Decagonal
Quasicrystal by Anomalous-X-Ray Scattering
Jpn. J. Appl. Phys., **39** (2000) L1111.

R.Suetoshi, S.Doi, I.Takahashi and K.Ohi
Structure Analysis of Sr₂Nb₂O₇(010) Surface by X-Ray
CTR Scattering
J. Phys. Soc. Jpn., **69** (2000) 3287.

H.Sato, T.Enoki, K.Wakiya, M.Isobe, Y.Ueda, T.Kiyama, Y.Wakabayashi, H.Nakao and Y.Murakami
Transport Properties and Magnetism of β -MnO₂
Mat. Res. Soc. Symp. Proc., **602** (2000) 17.

T.Shimura, T.Hosoi and M.Umeno
Epitaxially Ordered Structure in the Buried Oxide Layer
of SIMOX Wafers
The Physics and Chemistry of SiO₂ and the Si-SiO₂
Interface 4, **2000-2** (2000) 241.

Y.Moritomo, K.Hirota, H.Nakao, Y.Kiyama, Y.Murakami, S.Okamoto, S.Ishihara, S.Maekawa, M.Kuboa and H.Yoshizawa
Pressure-Induced Insulator-Metal Transition in a Bilayer
Manganite: Pressure Control of Orbital Stability
Phys. Rev. B, **62** (2000) 17.

2001

H.Nakao, K.Magishi, Y.Wakabayashi, Y.Murakami, K.Koyama, K.Hirota, Y.Endo and S.Kunii
Antiferro-Quadrupole Ordering of CeB₆ Studied by
Resonant X-Ray Scattering
J. Phys. Soc. Jpn., **70** (2001) 1857.

H.Sato, K.Wakiya, T.Enoki, T.Kiyama, Y.Wakabayashi, H.Nakao and Y.Murakami
Magnetic Structure of β -MnO₂: X-Ray Magnetic
Scattering Study
J. Phys. Soc. Jpn., **70** (2001) 37.

K.Ohwada, Y.Fujii, N.Takesue, M.Isobe, Y.Ueda, H.Nakao, Y.Wakabayashi, Y.Murakami, K.Ito, Y.Amemiya, H.Fujihisa, K.Aoki, T.Shobu, Y.Noda and N.Ikeda
"Devil's Staircase"-Type Phase Transition in NaV₂O₅
under High Pressure
Phys. Rev. Lett., **87** (2001) 086402.

J.Kokubun, M.Kanazawa, K.Ishida and V.E.Dmitrienko
Temperature-Induced Distortions of Electronic States
Observed via Forbidden Bragg Reflections in Germanium
Phys. Rev. B, **64** (2001) 073203.

H.Nakao, K.Ohwada, N.Takesue, Y.Fujii, M.Isobe, Y.Ueda, M.V.Zimmermann, J.P.Hill, D.Gibbs, J.C.Woicik, I.Koyama and Y.Murakami
Nakao et al. Reply
Phys. Rev. Lett., **87** (2001) 189703.

H.Abe, K.Harada, R.J.Matsuo, H.Uwe and K.Ohshima
X-Ray Diffuse Scattering Associated with Ferroelectric
Microregions in KTa_{1-x}Nb_xO₃
J. Phys.: Condens. Matter, **13** (2001) 3257.

Y.Murakami
Orbital Ordering Observed by X-Ray
Parity, **16** (2001) 56. (*in Japanese*).

M.Kanazawa, K.Hagiwara, J.Kokubun and K.Ishida
ATS Scattering from the Tetrahedral and Octahedral Site
in Magnetite and Franklinites
J. Phys. Soc. Jpn., **71** (2002) 1765.

T.Kondo, J.Morita, M.Okamura, T.Saito and K.Uosaki
In Situ Structural Study on Underpotential Deposition of
Ag on Au(111) Electrode Using Surface X-Ray Scattering
Technique
J. Electroanalytical Chem., **532** (2002) 201.

N.Ogawa, Y.Murakami and K.Miyano
Charge-Density-Wave Phase Reconstruction in the
Photoinduced Dynamic Phase Transition in $K_{0.3}MoO_3$
Phys. Rev. B, **65** (2002) 155107.

H.Abe, H.Saitoh, T.Kusawake, H.Nakao, Y.Matsuo,
K.Ohshima, Y.Morikawa and H.Matsumoto
An Order-Disorder Transformation in $Al_{72}Ni_{20}Co_8$
Decagonal Quasicrystals
J. Alloys and Comp., **342** (2002) 241.

H.Nakao, K.Magishi, Y.Wakabayashi, Y.Murakami,
K.Koyama, K.Hirota, Y.Endoh and S.Kunii
Observation of Antiferroquadrupole Ordering in CeB_6 by
Using Resonant X-Ray Scattering Technique
J. Phys. Soc. Jpn., **71** Suppl. (2002) 103.

T.Shimura, T.Hosoi, K.Fukuda and M.Umeno
Existence of an Epitaxially Ordered Phase in the Buried
Oxide SIMOX Wafers
Solid State Phenom., **82-84** (2002) 485.

T.Shimura, T.Hosoi, K.Fukuda, M.Umeno and A.Ogura
Formation of Epitaxially Ordered SiO_2 in Oxygen-
Implanted Silicon during Thermal Annealing
J. Cryst. Growth, **236** (2002) 37.

H.Sawa, E.Ninomiya, T.Ohama, H.Nakao, K.Ohwada,
Y.Murakami, Y.Fujii, Y.Noda, M.Isobe and Y.Ueda
Low-Temperature Structure of the Quarter-Filled Ladder
Compound α' - NaV_2O_5
J. Phys. Soc. Jpn., **71** (2002) 385.

H.Nakao
Charge and Orbital Ordered States Studied by Using X-
Ray Anomalous Scattering Terms
Houshakou (J. Jpn. Soc. Synchrotron Rad. Res.), **15**
(2002) 276. (*in Japanese*).

T.Matsumura, N.Oumi, K.Hirota, H.Nakao,
Y.Murakami, Y.Wakabayashi, T.Arima, S.Ishihara
and Y.Endoh
Observation of the Antiferroquadrupolar Order in
 DyB_2C_2 by Resonant X-Ray Scattering
Phys. Rev. B, **65** (2002) 094420.

T.Matsumura, N.Oumi, K.Hirota, H.Nakao,
Y.Wakabayashi and Y.Murakami
Resonant X-Ray Study of the Quadrupolar Orderings in
 RB_2C_2 (R=Dy, Ho)
J. Phys. Soc. Jpn., **71** Suppl. (2002) 91.

Y.Murakami
Resonant X-Ray Scattering from Orbitally Ordered
Systems
Acta Cryst. A, **58**(Suppl.) (2002) C244.

Y.Fujii, K.Ohwada, Y.Katsuki, N.Takesue,
T.Yoshihama, K.Nakajima, N.Aso, M.Nishi, K.Kakurai,
M.Isobe, Y.Ueda, H.Nakao, Y.Murakami, E.Ninomiya,
H.Sawa and Y.Noda
Synchrotron X-Ray and Neutron Scattering Study on the
Spin-Charge-Lattice Coupled System of NaV_2O_5
Solid State Physics, **37** (2002) 627. (*in Japanese*).

S.Shimomura, J.Mizuki, H.Sawa and Y.Murakami
Invitation to Experiments of Structural Materials Science
using Synchrotron X-Rays
Solid State Physics, **37** (2002) 711. (*in Japanese*).

T.Matsumura
Observation of the Antiferroquadrupolar Order in
 DyB_2C_2 by Resonant X-Ray Scattering
Houshakou (J. Jpn. Soc. Synchrotron Rad. Res.), **15**
(2002) 3. (*in Japanese*).

T.Arima and Y.Murakami
Resonant X-Ray Scattering as a Probe of Charge/Orbital
Ordering
Kotai Butsuri, **37** (2002) 615. (*in Japanese*).

H.Nakao, Y.Wakabayashi, T.Kiyama, Y.Murakami,
M.v.Zimmermann, J.P.Hill, D.Gibbs, S.Ishida,
Y.Taguchi and Y.Tokura
Quantitative Determination of the Atomic Scattering
Tensor in Orbitally Ordered $YTiO_3$ by using a Resonant
X-Ray Scattering Technique
Phys. Rev. B, **66** (2002) 184419.

J.Kokubun and K.Ishida
Review of Recent Experiments in ATS Scattering
Nihonkessyohgakkaiishi, **44** (2002) 161. (*in Japanese*).

T.Kondo, K.Tamura, M.Takahashi, J.Mizuki and
K.Uosaki
A Novel Spectroelectrochemical Cell for in situ Surface
X-Ray Scattering Measurements of Single Crystal Disk
Electrodes
Electrochimica Acta, **47** (2002) 3075.

H.Ohsumi, Y.Murakami, T.Kiyama, H.Nakao,
M.Kubota, Y.Wakabayashi, Y.Konishi, M.Izumi,
M.Kawasaki and Y.Tokura
Experimental Elucidation: Microscopic Mechanism of
Resonant X-Ray Scattering in Manganite Films
J. Phys. Soc. Jpn., **72** (2003) 1006.

K.Ishii, T.Inami, Y.Murakami, L.Hao, K.Iwasa, M.Kohgi, Y.Aoki, H.Sugawara, H.Sato, S.Imada, H.Nakao, H.Sawa and Y.Wakabayashi
Resonant X-Ray Scattering Study on the Filled Skutterudite $\text{PrFe}_4\text{P}_{12}$
Physica B, **329-333** (2003) 467.

T.Kimura, S.Ishihara, H.Shintani, T.Arima, K.T.Takahashi, K.Ishizuka and Y.Tokura
Distorted Perovskite with e_g^1 Configuration as a Frustrated Spin System
Phys. Rev. B, **68** (2003) 060403.

H.Abe, H.Saitoh, T.Ueno, H.Nakao, Y.Matsuo, K.Ohshima and H.Matsumoto
Anomalous Debye-Waller Factor Associated with an Order-Disorder Transformation in an $\text{Al}_{72}\text{Ni}_{20}\text{Co}_8$ Decagonal Quasicrystal
J. Phys. Soc. Jpn., **72** (2003) 1828.

T.Kimura, T.Goto, H.Shintani, K.Ishizuka, T.Arima and Y.Tokura
Magnetic Control of Ferroelectric Polarization
Nature, **426** (2003) 55.

K.Tatsumura, T.Watanabe, D.Yamasaki, T.Shimura, M.Umeno and I.Ohdomari
Effects of Thermal History on Residual Order of Thermally Grown Silicon Dioxide
Jpn. J. Appl. Phys., **42** (2003) 7250.

H.Nakao, T.Satoh, J.Satoh, Y.Murakami, M.Kubota, Y.Wakabayashi, H.Sawa, T.Kimura and Y.Tokura
Charge and Orbital Order States in $\text{Nd}_{1-x}\text{Sr}_{1+x}\text{MnO}_4$ ($x=0.67, 0.75$)
Physica B, **329-333** (2003) 809.

H.Sato, Y.Kawamura, T.Ogawa, Y.Murakami, H.Ohsumi, M.Mizumaki and N.Ikeda
Critical Phenomena in Helical Magnet $\beta\text{-MnO}_2$: X-Ray Magnetic Scattering Study
Physica B, **329-333** (2003) 757.

T.Masuda, D.Yano, R.Kuroda, K.Uchinokura, H.Kuroe, T.Sekine, Y.Katsuki, K.Ohwada, Y.Fujii, H.Nakao and Y.Murakami
Appearance of the Spin-Peierls Phase under Pressure in $\text{Cu}_{1-x}\text{Mg}_x\text{GeO}_3$
Phys. Rev. B, **67** (2003) 024423.

T.Sumi, H.Wano and K.Uosaki
Electrochemical Oxidative Adsorption and Reductive Desorption of a Self-Assembled Monolayer of Decanethiol on the Au(111) Surface in KOH+ethanol Solution
J. of Electroanalytical Chem., **550-551** (2003) 321.

V.E.Dmitrienko, K.Ishida, A.Kirfel, J.Kokubun and E.N.Ovchinnikova
A Novel Method for Studying Thermal Motion and Point Defects in Crystals by X-Ray Resonant Diffraction
AIP Conf. Proc., **652** (2003) 317.

T.Kiyama, Y.Wakabayashi, H.Nakao, H.Ohsumi, Y.Murakami, M.Izumi, M.Kawasaki and Y.Tokura
Resonant X-Ray Scattering in Perovskite Manganite Superlattice – Observation of “Orbital Superlattice” –
J. Phys. Soc. Jpn., **72** (2003) 785.

E.Ninomiya, M.Isobe, Y.Ueda, M.Nishi, K.Ohoyama, H.Sawa and T.Ohama
Observation of Lattice Dimerization in Spin-Singlet Low Temperature Phase of $\text{NaTiSi}_2\text{O}_6$
Physica B, **329-333** (2003) 884.

H.Sawa, Y.Wakabayashi, E.Ninomiya, T.Ohama, H.Nakao, Y.Murakami, K.Ohwada, Y.Fujii, Y.Noda, M.Isobe and Y.Ueda
Low-Temperature Zigzag Charge-Ordering Structure of $\alpha'\text{-NaV}_2\text{O}_5$
Physica B, **329-333** (2003) 878.

H.Abe, H.Saitoh, T.Ueno, H.Nakao, Y.Matsuo, K.Ohshima and H.Matsumoto
Diffuse Scattering from an $\text{Al}_{72}\text{Ni}_{20}\text{Co}_8$ Decagonal Quasicrystal on an Order-Disorder Transformation
J. Phys.: Condens. Matter, **15** (2003) 1665.

2004

D.Higashiyama, S.Miyasaka, N.Kida, T.Arima and Y.Tokura
Control of the Ferroelectric Properties of DyMn_2O_5 by Magnetic Fields
Phys. Rev. B, **70** (2004) 174405.

M.Kubota, H.Nakao, Y.Murakami, Y.Taguchi, M.Iwama and Y.Tokura
Orbital Ordering near a Mott Transition: Resonant X-Ray Scattering Study of the Perovskite Ti Oxides $R\text{TiO}_3$ and $\text{LaTiO}_{3.02}$ ($R=\text{Gd}, \text{Sm}, \text{Nd}, \text{and La}$)
Phys. Rev. B, **70** (2004) 245125.

K.Ishizuka, T.Arima, Y.Murakami, R.Kajimoto, H.Yoshizawa, N.Nagaosa and Y.Tokura
Commensurate-Incommensurate Crossover of Charge Stripe in $\text{La}_{2-x}\text{Sr}_x\text{NiO}_4$ ($x=1/3$)
Phys. Rev. Lett., **92** (2004) 196404.

J.Kokubun, K.Ishida, D.Cabaret, F.Mauri, R.V.Vedrinskii, V.L.Kraizman, A.A.Novakovich, E.V.Krivitskii and V.E.Dmitrienko
Resonant Diffraction in FeS_2 : Determination of the X-Ray Polarization Anisotropy of Iron Atoms
Phys. Rev. B, **69** (2004) 245103.

K.Tatsumura, T.Watanabe, D.Yamasaki, T.Shimura, M.Umeno and I.Ohdomari
Residual Order within Thermally Grown Amorphous SiO_2 on Crystalline Silicon
Phys. Rev. B, **69** (2004) 085212.

A.Kitahara, I.Takahashi and S.Do
Melting Behavior of Polystyrene Surface Studied by X-Ray Reflectivity
AIP Conf. Proc., **708** (2004) 255.

D.Okuyama, T.Matsumura, Y.Murakami, Y.Wakabayashi, H.Sawa and D.X.Li
Resonant Magnetic X-Ray Scattering from Antiferromagnetic Order in GdAs
Physica B, **345** (2004) 63.

H.Nakao, M.Tsubota, F.Iga, K.Uchihira, T.Nakano, T.Takabatake, K.Kato and Y.Murakami
Orbitally Ordered State in $Y_{1-x}Ca_xTiO_3$ ($0 < x \leq 0.5$)
J. Phys. Soc. Jpn., **73** (2004) 2620.

M.Nakamura, M.Izumi, N.Ogawa, H.Ohsumi, Y.Wakabayashi and K.Miyano
Relative Contributions of Lattice Distortion and Coulomb Interaction to Resonant X-Ray Scattering in Manganites
J. Phys. Soc. Jpn., **73** (2004) 2802.

S.Nihonyanagi, D.Miyamoto, S.Idojiri and K.Uosaki
Evidence for Epitaxial Arrangement and High Conformational Order of an Organic Monolayer on Si(111) by Sum Frequency Generation Spectroscopy
J. Am. Chem. Soc., **126** (2004) 7034.

2005

K.Ohwada, K.Ishii, T.Inami, Y.Murakami, T.Shobu, H.Ohsumi, N.Ikeda and Y.Ohishi
Structural Properties and Phase Transition of Hole-Orbital-Ordered $(C_2H_5NH_3)_2CuCl_4$ Studied by Resonant and Non-Resonant X-Ray Scatterings under High Pressure
Phys. Rev. B, **72** (2005) 014123.

T.Arima
Probing Toroidal Moments Using X-Ray
Solid State Physics, **40** (2005) 891. (*in Japanese*).

V.E.Dmitrienko, K.Ishida, A.Kirfel and E.N.Ovchinnikova
Polarization Anisotropy of X-Ray Atomic Factors and 'Forbidden' Resonant Reflections
Acta Cryst. A, **61** (2005) 481.

H.Wano and K.Uosaki
In situ Dynamic Monitoring of Electrochemical Oxidative Adsorption and Reductive Desorption Processes of a Self-Assembled Monolayer of Hexanethiol on a Au(111) Surface in KOH Ethanol Solution by Scanning Tunneling Microscopy
Langmuir, **21** (2005) 4024.

T.Shimura, K.Yasutake, M.Umeno and M.Nagase
X-Ray Diffraction Measurements of Internal Strain in Si Nanowires Fabricated using a Self-Limiting Oxidation Process
Appl. Phys. Lett., **86** (2005) 071903.

J.Kokubun, K.Ishida, D.Cabaret, R.V.Vedrinskii, V.L.Kraizman, A.A.Novakovich, E.V.Krivitskii and V.E.Dmitrienko
Real and Imaginary Parts of the Anisotropic Atomic Factor near the Fe K-Edge: Comparison between Two Theories and Experiment for Pyrite
Physica Scripta, **T115** (2005) 1062.

K.Ohwada, Y.Fujii, Y.Katsuki, J.Muraoka, H.Nakao, Y.Murakami, H.Sawa, E.Ninomiya, M.Isobe and Y.Ueda
Charge-Order Pattern of the Low-Temperature Phase from a Monoclinic Single Domain of NaV_2O_5 Uniquely Determined by Resonant X-Ray Scattering
Phys. Rev. Lett., **94** (2005) 106401.

T.Shimura, K.Fukuda, K.Yasutake, T.Hosoi and M.Umeno
Comparison of Ordered Structure in Buried Oxide Layers in High-Dose, Low-Dose, and Internal-Thermal-Oxidation Separation-by-Implanted-Oxygen Wafers Thin Solid Films, **476** (2005) 125.

T.Shimura, E.Mishima, H.Watanabe, K.Yasutake, M.Umeno, K. Tatsumura, T.Watanabe, I.Ohdomari, K.Yamada, S.Kamiyama, Y.Akasaka, Y.Nara and K.Nakamura
Ordered Structure in the Thermal Oxide Layer on Silicon Substrates
The Physics and Chemistry of SiO_2 and the Si- SiO_2 Interface 5, **5** (2005) 39.

K.Tatsumura, T.Shimura, E.Mishima, K.Kawamura, D.Yamasaki, H.Yamamoto, T.Watanabe, M.Umeno and I.Ohdomari
Reaction and Diffusion of Atomic and Molecular Oxygen in the SiO_2 Network
Phys. Rev. B, **72** (2005) 045205.

2006

S.Takaishi, D.Kawakami, M.Yamashita, M.Sasaki, T.Kajiwarra, H.Miyasaka, K.Sugiura, Y.Wakabayashi, H.Sawa, H.Matsuzaki, H.Kishida, H.Okamoto, H.Watanabe, H.Tanaka, K.Marumoto, H.Ito and S.Kuroda
Dynamical Valence Fluctuation at the Charge-Density-Wave Phase Boundary in Iodide-Bridged Pt Compound $[Pt(chxn)_2I]I_2$
J. Am. Chem. Soc., **128** (2006) 6420.

Y.Wakabayashi, A.Kobayashi, H.Sawa, H.Ohsumi, N.Ikeda and H.Kitagawa
Direct Determination of Low-Dimensional Structures: Synchrotron X-Ray Scattering on One-Dimensional Charge-Ordered MMX-Chain Complexes
J. Am. Chem. Soc., **128** (2006) 6676.

H.Nakao, K.Kiyoto, S.Kodama, D.Bizen, T.Matsumura, K.Iwasa, Y.Murakami and A.Ochiai
Charge Ordered State in Yb_4As_3 Studied by a Resonant X-Ray Scattering Technique
AIP Conf. Proc., **850** (2006) 1175.

- H.Nakao, S.Kodama, K.Kiyoto, Y.Murakami, M.Tsubota, F.Iga, K.Uchihira, T.Takabatake, H.Ohsumi, M.Mizumaki and N.Ikeda
Resonant X-Ray Scattering Study at Y *K*-Edge in $Y_{1-x}Ca_xTiO_3$
J. Phys. Soc. Jpn., **75** (2006) 094706.
- T.Arima, A.Tokunaga, T.Goto, H.Kimura, Y.Noda and Y.Tokura
Collinear to Spiral Spin Transformation without Changing the Modulation Wavelength upon Ferroelectric Transition in $Tb_{1-x}Dy_xMnO_3$
Phys. Rev. Lett., **96** (2006) 097202.
- H.Abe, H.Saitoh, H.Nakao, K.Ito and K.Ohshima
Energy Spectrometer on a Diffractometer using a Charge-Coupled Device X-Ray Detector
J. Appl. Cryst., **39** (2006) 767.
- M.Goto, K.Akimoto, F.Honda and T.Nakahara
Tribo-Assisted Reorientation of Nanometre-Thick Ag Film in Ultrahigh Vacuum Environment
Proc. IMechE, Part J: J. Engineering Tribology, **220** (2006) 135.
- K.Akimoto, K.Fukagawa, M.Goto and F.Honda
Crystal Orientation Changes of Ag Thin Films on the Si(111) Substrate due to Tribo-Assisted Recrystallization Thin Solid Films, **515** (2006) 444.
- Y.Wakabayashi, D.Bizen, H.Nakao, Y.Murakami, M.Nakamura, Y.Ogimoto, K.Miyano and H.Sawa
Novel Orbital Ordering Induced by Anisotropic Stress in a Manganite Thin Film
Phys. Rev. Lett., **96** (2006) 017202.
- K.Ohwada, Y.Fujii, H.Nakao, Y.Murakami, M.Isobe and Y.Ueda
Discovery of the “Devil’s Flower” in a Charge-Ordering System – Synchrotron X-Ray Diffraction Study of NaV_2O_5
Modern Phys. Lett. B, **20** (2006) 199.
- H.Yanagihara, M.Hasegawa, E.Kita, Y.Wakabayashi, H.Sawa and K.Siratori
Iron Vacancy Ordered γ - $Fe_2O_3(001)$ Epitaxial Films: The Crystal Structure and Electrical Resistivity
J. Phys. Soc. Jpn., **75** (2006) 054708.
- M.Tagawa, C.Sogo, K.Yokota, A.Yoshigoe, Y.Teraoka and T.Shimura
Oxidation of Si(001) with a Hyperthermal O-Atom Beam at Room Temperature: Suboxide Distribution and Residual Order Structure
Appl. Phys. Lett., **88** (2006) 133512.
- Y.Noda, H.Kimura, Y.Kamada, T.Osawa, Y.Fukuda, Y.Ishikawa, S.Kobayashi, Y.Wakabayashi, H.Sawa, N.Ikeda and K.Kohn
Relation between Ferroelectric and Antiferromagnetic order in RMn_2O_5
Physica B, **385-386** (2006) 133.
- D.Bizen, K.Nakatsuka, H.Nakao, Y.Murakami, S.Miyasaka and Y.Tokura
Pressure Effects on the Orbital Ordered State of RVO_3 ($R=Y, Tb$)
J. Magn. Magn. Mater., **310** (2007) 785.
- Y.Murakami, H.Nakao, T.Matsumura and K.Ohsumi
Mechanism of Resonant X-Ray Scattering to Observe the Orbital Ordering
J. Mag. Mag. Mater., **310** (2007) 723.
- N.Tatami, Y.Ando, S.Niioka, H.Kira, M.Onodera, H.Nakao, K.Iwasa, Y.Murakami, T.Kakiuchi, Y.Wakabayashi, H.Sawa and S.Itoh
Orbital Ordering and the Dilute Effect in Copper Fluoride
J. Magn. Magn. Mater., **310** (2007) 787.
- T.Inami, T.Honma, S.Tsutsui, K.Indoh, H.Onodera, K.Ishii, K.Ohwada, K.Kuzushita, H.Nakao and Y.Murakami
Resonant X-Ray Magnetic Diffraction Experiments on SmB_2C_2
J. Magn. Magn. Mater., **310** (2007) 748.
- K.Ohwada, Y.Fujii, J.Muraoka, H.Nakao, Y.Murakami, Y.Noda, H.Ohsumi, N.Ikeda, T.Shobu, M.Isobe and Y.Ueda
Structural Relations between Two Ground States of NaV_2O_5 under High Pressure: A Synchrotron X-Ray Diffraction Study
Phys. Rev. B, **76** (2007) 094113.
- H.Sakai, K.Ito, R.Kumai and Y.Tokura
Fe-Doping-Induced Evolution of Charge-Orbital Ordering in a Bicritical-State Manganite
Phys. Rev. B, **76** (2007) 155112.
- T.Arima, Y.Yamasaki, T.Goto, S.Iguchi, K.Ohgushi, S.Miyasaka and Y.Tokura
Spin-Lattice Coupling in Ferroelectric Spiral Magnets: Comparison between the Cases of $(Tb, Dy)MnO_3$ and $CoCr_2O_4$
J. Phys. Soc. Jpn., **76** (2007) 023602.
- Y.Yamasaki, T.Arima and Y.Tokura
Magnetic Reversal of the Ferroelectric Polarization in a Spinel-Type $CoCr_2O_4$
Solid State Physics, **42** (2007) 29. (*in Japanese*).
- Y.Wakabayashi
Observation of a Low-Dimensional Structure –Utilization of Anomalous Scattering in Analysis of X-Ray Diffuse Scattering
J. Jpn. Soc. Synchrotron Rad. Res., **20** (2007) 26. (*in Japanese*).
- H.Abe, K.Yamamoto, S.Matsuoka and Y.Matsuo
Atomic Short-Range Order in an $Al_{72}Ni_{18}Fe_{10}$ Decagonal Quasicrystal Studied by Anomalous X-Ray Scattering
J. Phys.: Condens. Matter, **19** (2007) 466201.

T.Matsumura, D.Okuyama, S.Nioka, H.Ishida, T.Satoh, Y.Murakami, H.Toyosaki, Y.Yamada, T.Fukumura and M.Kawasaki
X-Ray Anomalous Scattering of Diluted Magnetic Oxide Semiconductors: Possible Evidence of Lattice Deformation for High Temperature Ferromagnetism
Phys. Rev. B, **76** (2007) 115320.

S.Miyasaka, T.Yasue, J.Fujioka, Y.Yamasaki, Y.Okimoto, R.Kumai, T.Arima and Y.Tokura
Magnetic Field Switching between the Two Orbital-Ordered States in DyVO₃
Phys. Rev. Lett., **99** (2007) 217201.

Y.Noda, H.Kimura, Y.Ishikawa, S.Kobayashi, Y.Wakabayashi, H.Sawa, N.Ikeda and K.Kohn
Lattice Modulation in YMn₂O₅ and TbMn₂O₅ Studied by Synchrotron Radiation X-Rays
J. Korean Phys. Soc., **51** (2007) 828.

T.Tajiri, K.Sumitani, R.Haruki and A.Kohno
Preferred Crystal Orientation of Sol-Gel-Derived Bi_{4-x}La_xTi₃O₁₂ Thin Films on Silicon Substrates
IEEE Trans. on Ultrasonics, Ferroelectrics, and Frequency Control, **54** (2007) 2574.

Y.Wakabayashi, D.Bizen, H.Nakao, Y.Murakami, M.Nakamura, Y.Ogimoto, K.Miyano and H.Sawa
Orbital Ordered Structure of a Manganite Thin Film Observed by K-Edge Resonant X-Ray Scattering
AIP Conf. Proc., **879** (2007) 1711.

T.Kondo, J.Morita, K.Hanaoka, S.Takakusagi, K.Tamura, M.Takahashi, J.Mizuki and K.Uosaki
Structure of Au(111) and Au(100) Single-Crystal Electrode Surfaces at Various Potentials in Sulfuric Acid Solution by In Situ Surface X-Ray Scattering
J. Phys. Chem. C, **111** (2007) 13197.

T.Kakiuchi, Y.Wakabayashi, H.Sawa, T.Itou and K.Kanoda
Wigner Crystallization in (DI-DCNQI)₂Ag Detected by Synchrotron Radiation X-Ray Diffraction
Phys. Rev. Lett., **98** (2007) 066402.

T.Suzuki, M.Katsumura, K.Taniguchi, T.Arima and T.Katsufuji
Orbital Ordering and Magnetic Field Effect in MnV₂O₄
Phys. Rev. Lett., **98** (2007) 127203.

K.Ishii, S.Tsutsui, L.Hao, T.Hasegawa, K.Iwasa, M.Tsubota, T.Inami, Y.Murakami, S.R.Saha, H.Sugawara and H.Sato
Resonant X-Ray Scattering of PrRu₄P₁₂
J. Magn. Magn. Mater., **310** (2007) e178.

2008

T.Katsufuji, T.Suzuki, H.Takei, M.Shingu, K.Kato, K.Osaka, M.Takata, H.Sagayama and T.Arima
Structural and Magnetic Properties of Spinel FeV₂O₄ with Two Ions Having Orbital Degrees of Freedom
J. Phys. Soc. Jpn., **77** (2008) 053708.

K.Taniguchi, N.Abe, H.Sagayama, S.Ohtani, T.Takenobu, Y.Iwasa and T.Arima
Magnetic-Field Dependence of the Ferroelectric Polarization and Spin-Lattice Coupling in Multiferroic MnWO₄
Phys. Rev. B, **77** (2008) 064408.

Y.Yamasaki, H.Sagayama, N.Abe, T.Arima, K.Sasai, M.Matsuura, K.Hirota, D.Okuyama, Y.Noda and Y.Tokura
Cycloidal Spin Order in the *a*-Axis Polarized Ferroelectric Phase of Orthorhombic Perovskite Manganite
Phys. Rev. Lett., **101** (2008) 097204.

Y.Wakabayashi, Y.Kubo, D.Bizen, H.Nakao, Y.Murakami, M.Nakamura, Y.Ogimoto, K.Miyano and H.Sawa
Orbital Ordering Structures in (Nd,Pr)_{0.5}Sr_{0.5}MnO₃ Manganite Thin Films on Perovskite (011) Substrates
J. Phys. Soc. Jpn., **77** (2008) 014712.

Y.Tokunaga, T.J.Sato, M.Uchida, R.Kumai, Y.Matsui, T.Arima and Y.Tokura
Versatile and Competing Spin-Charge-Orbital Orders in the Bilayered Manganite System Pr(Sr_{1-y}Ca_y)₂Mn₂O₇
Phys. Rev. B, **77** (2008) 064428.

T.Shimura, T.Inoue, Y.Okamoto, T.Hosoi, A.Ogura, O.Sakata, S.Kimura, H.Edo, S.Iida and H.Watanabe
Application of Synchrotron X-Ray Diffraction Methods to Gate Stacks of Advanced MOS Devices
ECS Transactions, **13** (2008) 75.

D.Bizen, K.Nakatsuka, T.Murata, H.Nakao, Y.Murakami, S.Miyasaka and Y.Tokura
Orbital Ordering in RVO₃ (R=Y, Tb) Controlled by Hydrostatic Pressure
Phys. Rev. B, **78** (2008) 224104.

J.Kokubun, A.Watanabe, M.Uehara, Y.Ninomiya, H.Sawai, N.Momozawa, K.Ishida and V.E.Dmitrienko
Chiral and Magnetic Effects in Forbidden X-Ray Scattering from Antiferromagnetic Hematite α -Fe₂O₃ and Eskolaite Cr₂O₃
Phys. Rev. B, **78** (2008) 115112.

K.Horigane, H.Nakao, Y.Kousaka, T.Murata, Y.Noda, Y.Murakami and J.Akimitsu
Crystal Structure and Charge-Ordering in La_{1.5}Ca_{0.5}CoO₄ Studied by Neutron and Resonant X-Ray Scattering
J. Phys. Soc. Jpn., **77** (2008) 044601.

Y.Noda, H.Kimura, M.Fukunaga, S.Kobayashi, I.Kagomiya and K.Kohn
Magnetic and Ferroelectric Properties of Multiferroic RMn₂O₅
J. Phys.: Condens. Matter, **20** (2008) 434206.

V.E.Dmitrienko, E.N.Ovchinnikova, A.M.Kolchinskaya, A.P.Oreshko, D.I.Bazhanov, J.Kokubun, K.Ishida, S.P.Collins and E.K.Mukhamedzhanov
Modeling of the Thermal-Motion-Induced Effects in Resonant X-Ray Diffraction Observed for Ge and ZnO
AIP Conf. Proc., **999** (2008) 1.

M.Goto, K.Akimoto and F.Honda
Selective Growth of Epitaxial Ag Film Using Tribo-Assisted Reorientation
Proc. IMechE J, **222** (2008) 241.

M.Goto, H.Kobayashi and K.Akimoto
Selective Growth of Homo-Epitaxial Ag-Nano-Layer on Tribo-Assisted-Reorientation
Tribology Online, **3** (2008) 173.

F.Honda, M.Goto and K.Akimoto
Tribological Roles of Nanometre Thick Ag Layers on Herzian Macroscopic Contacts
Tribology - Materials, Surfaces and Interfaces, **2** (2008) 213.

2009

T.Kondo, S.Takakusagi and K.Uosaki
Stability of Underpotentially Deposited Ag Layers on a Au(111) Surface Studied by Surface X-Ray Scattering
Electrochem. Commun., **11** (2009) 804.

T.Shimura, Y.Okamoto, D.Shimokawa, T.Inoue, T.Hosoi, H.Watanabe, O.Sakata and M.Umeno
Synchrotron X-Ray Diffraction Studies of Thermal Oxidation of Si and SiGe
ECS Trans., **19** (2009) 479.

Y.Wakabayashi, N.Takubo, K.Miyano and H.Sawa
Structural Study on $\text{Pr}_{0.55}(\text{Ca}_{1-y}\text{Sr}_y)_{0.45}\text{MnO}_3$ Thin Films on Perovskite (011) Substrate
Eur. Phys. J. Special Topics, **167** (2009) 67.

H.Nakao and Y.Murakami
Charge and Orbital Ordering in Strongly Correlated Electron System
Kotai Butsuri, **44** (2009) 767. (*in Japanese*).

T.Arima
Diffraction Studies on the Origin of Giant Magneto-Electric Effects in Multiferroics
J. Jpn. Soc. Synchrotron Rad. Res., **1** (2009) 3. (*in Japanese*).

T.Takahashi, T.Shirasawa, K.Sekiguchi and W.Voegeli
Study of the Interface Structure of Epitaxial Ultra-Thin Film by an X-Ray Holographic Imaging Method
e-J. Surf. Sci. Nanotech., **7** (2009) 525.

T.Shirasawa, K.Sekiguchi, Y.Iwasawa, W.Voegeli, T.Takahashi, K.Hattori, A.N.Hattori, H.Daimon and Y.Wakabayashi
Interface Structure of an Epitaxial Iron Silicide on Si(111) Studied with X-Ray Diffraction
e-J. Surf. Sci. Nanotech., **7** (2009) 513.

D.Okuyama, M.Nakamura, Y.Wakabayashi, H.Itoh, R.Kumai, H.Yamada, Y.Taguchi, T.Arima, M.Kawasaki and Y.Tokura
Epitaxial-Strain Effect on Charge/Orbital Order in $\text{Pr}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ Films
Appl. Phys. Lett., **95** (2009) 152502.

A.Kohno, T.Tajiri, K.Sumitani and R.Haruki
Change in Preferred Crystal Orientation of $\text{Bi}_{4-x}\text{La}_x\text{Ti}_3\text{O}_{12}$ Thin Film Formed on Silicon Substrate during Crystallization
Fukuoka Unive. Science Reports, **39** (2009) 95. (*in Japanese*).

2010

Y.Wakabayashi, J.Takeya and T.Kimura
Sub-Å Resolution Electron Density Analysis of the Surface of Organic Rubrene Crystals
Phys. Rev. Lett., **104** (2010) 066103.

T.Sakurai, T.Yamanari, M.Kubota, S.Toyoshima, T.Taima, Y.Yoshida and K.Akimoto
Comparative Study on Structural Properties of Poly(3-Hexylthiophene) and Poly(3-Hexylthiophene):6,6-Phenyl-C₆₁ Butyric Acid Methyl Ester Thin Films using Synchrotron X-Ray Diffraction
Jpn. J. Appl. Phys., **49** (2010) 01AC01.

T.Shimura, Y.Okamoto, T.Inoue, T.Hosoi and H.Watanabe
Residual Order in the Thermal Oxide of a Fully Strained SiGe Alloy on Si
Phys. Rev. B, **81** (2010) 033308.

S.Ohtani, Y.Watanabe, M.Saito, N.Abe, K.Taniguchi, H.Sagayama, T.Arima, M.Watanabe and Y.Noda
Orbital Dilution Effect in Ferrimagnetic $\text{Fe}_{1-x}\text{Mn}_x\text{Cr}_2\text{O}_4$: Competition between Anharmonic Lattice Potential and Spin-Orbit Coupling
J. Phys.: Condens. Matter, **22** (2010) 176003.

M.Nakamura, D.Okuyama, J.S.Lee, T.Arima, Y.Wakabayashi, R.Kumai, M.Kawasaki and Y.Tokura
Magnetically Tunable Metal Insulator Superlattices
Adv. Mater., **22** (2010) 500.

J.S.Lee, M.Nakamura, D.Okuyama, R.Kumai, T.Arima, M.Kawasaki and Y.Tokura
Competing Electronic Orders in Anisotropically Strained $(\text{Pr}_{0.6}\text{Ca}_{0.4})_{1-x}(\text{La}_{0.6}\text{Sr}_{0.4})_x\text{MnO}_3$ Thin Films
Phys. Rev. B, **82** (2010) 052406.

T.Shimura, D.Shimokawa, T.Inoue, T.Hosoi, H.Watanabe, O.Sakata and M.Umeno
Thermal Stability and Electron Irradiation Damage of Ordered Structure in the Thermal Oxide Layer on Si
J. Electrochem. Soc., **157** (2010) H977.

T.Kondo, M.Shibata, N.Hayashi, H.Fukumitsu,
T.Masuda and K.Uosaki
Resonance Surface X-Ray Scattering Technique to
Determine the Structure of Electrodeposited Pt
Ultrathin Layers on Au(111) Surface
Electrochimica Acta, **55** (2010) 8302.