

X.H.Chen, D.H.Chi, Z.Sun, T.Takenobu, Z.S.Liu and Y.Iwasa

Synthesis, Structure, and Transport Properties of Novel Fullerides  $A_3C_{70}$  ( $A=Ba$  and  $Sm$ )

J. Am. Chem. Soc., **122** (2000) 5729.

K.Ohwada, H.Nakao, N.Takesue, Y.Fujii, M.Isobe, Y.Ueda, Y.Wakabayashi and Y.Murakami

Pressure-Induced Phase Transition in  $NaV_2O_5$  at Low Temperature

J. Phys. Soc. Jpn., **69** (2000) 639.

H.Ootoshi, K.Ishii, T.Watanuki, A.Fujiwara and H.Suematsu

Synthesis and Crystal Structure of Europium Fullerides

Mol. Cryst. and Liq. Cryst., **340** (2000) 565.

K.Ishii, T.Watanuki, A.Fujiwara, H.Suematsu, Y.Iwasa, H. Shimoda, T.Takenobu and T.Mitani

Structural Phase Transition in Ammoniated Alkali Fullerides: Orientational Ordering of Alkali Ammonia Cluster

Mol. Cryst. and Liq. Cryst., **340** (2000) 571.

T.Watanuki, A.Fujiwara, K.Ishii, Y.Matsuoka, H.Suematsu, K.Ohwada, H.Nakao, Y.Fujii, K.Kikuchi and Y.Achiba

Structural Phase Transitions of Endohedral Metallofullerene  $La@C_{82}$  Studied by Single Crystal X-Ray Diffraction

Mol. Cryst. and Liq. Cryst., **340** (2000) 639.

A.Fujiwara, K.Ishii, T.Watanuki, H.Suematsu, H.Nakao, K.Ohwada, Y.Fujii, Y.Murakami, T.Mori, H.Kawada, T.Kikegawa, O.Shimomura, T.Matsubara, H.Hanabusa, S.Daicho, S.Kitamura and C. Katayama

Synchrotron Radiation X-Ray Powder Diffractometer Using a Cylindrical Imaging Plate

J. Appl. Cryst., **33** (2000) 1241.

K.Ishii, H.Ootoshi, Y.Nishi, A.Fujiwara, H.Suematsu and Y.Kubozono

Crystal Structure and Magnetic Properties of  $Eu_xSr_{6-x}C_{60}$

Proc. of XIVth Int. Winterschool on Electronic Properties of Novel Materials, **84** (2000) 285.

S.Fujiki, Y.Kubozono, S.Emura, Y.Takabayashi, S.Kashino, A.Fujiwara, K.Ishii, H.Suematsu, Y.Murakami, Y.Iwasa, T.Mitani and H.Ogata

Structure and Raman Scattering of  $Cs_3C_{60}$  under High Pressure

Phys. Rev. B, **62** (2000) 5366.

M.Kobayashi, T.Hara, K.Shiota, Y.Akahama, H.Kawamura and Y.Murakami

X-Ray Diffraction and Physical Properties of Potassium Fullerides  $K_xC_{70}$

Mol. Cryst. and Liq. Cryst., **340** (2000) 611.

C.J.Nuttall, Y.Inada, Y.Watanabe, K.Nagai, T.Muro, D.H.Chi, T.Takenobu, Y.Iwasa and K.Kikuchi

Structural and Magnetic Characterization of  $La@C_{82}$

Mol. Cryst. and Liq. Cryst., **340** (2000) 635.

C.J.Nuttall, Y.Inada, K.Nagai and Y.Iwasa

Low Temperature Bistability in Magnetic Properties of Solvent-including Lanthanide Metallofullerene Crystals

Phys. Rev. B, **62** (2000) 8592.

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.

T.Ohama, A.Goto, T.Shimizu, E.Ninomiya, H.Sawa, M.Isobe and Y.Ueda

Zigzag Charge Ordering in  $\alpha'$ - $NaV_2O_5$

J. Phys. Soc. Jpn., **69** (2000) 2751.

## 2001

K.Ishii, A.Fujiwara, H.Suematsu and Y.Kubozono

Ferromagnetic Transition in Europium Fullerides  $Eu_xSr_{6-x}C_{60}$

AIP Conf. Proc., **590** (2001) 317.

S.Iida, Y.Kubozono, Y.Slovokhotov, Y.Takabayashi, T.Kanbara, T.Fukunaga, S.Fujiki, S.Emura and S.Kashino

Structure and Electronic Properties of  $Dy@C_{82}$  Studied by UV-VIS Absorption, X-Ray Powder Diffraction and XAFS

Chem. Phys. Lett., **338** (2001) 21.

H.Takahashi, T.Nakanishi, T.Arima, M.Noguchi, M.Oyanagi, N.Takeshita and N.Mori

High-Pressure Effect on Transport Properties of Spin-Ladder Compounds  $Na_{1-x}Ca_xV_2O_5$  and  $Ca_{0.7}Li_{0.3}V_2O_5$

J. Mag. Mag. Mater., **226-230** (2001) 246.

Y.Kubozono, T.Takabayashi, T.Kambe, S.Fujiki, S.Kashino and S.Emura

Structure and Physical Properties of  $Na_4C_{60}$  under Ambient and High Pressures

Phys. Rev. B, **63** (2001) 045418.

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  $NaV_2O_5$  under High Pressure

Phys. Rev. Lett., **87** (2001) 086402.

K.Ishii, A.Fujiwara, H.Suematsu and Y.Kubozono  
Ferromagnetism and Giant Magnetoresistance in the  
Rare-Earth Fullerides  $\text{Eu}_{6-x}\text{Sr}_x\text{C}_{60}$   
Phys. Rev. B, **65** (2002) 134431.

Y.Maniwa, H.Kataura, M.Abe, S.Suzuki, Y.Achiba,  
H.Kira and K.Matsuda  
Phase Transition in Confined Water Inside Carbon  
Nanotubes  
J. Phys. Soc. Jpn., **71** (2002) 2863.

H.Kira, H.Tou, Y.Maniwa and Y.Murakami  
Magnetic Interaction in K-Adsorbing Zeolite LTA  
Physica B, **312-313** (2002) 789.

D.H.Chi, Y.Iwasa, X.H.Chen, T.Takenobu, T.Ito,  
T.Mitani, E.Nishibori, M.Takata, M.Sakata and  
Y.Kubozono  
Bridging Fullerenes with Metals  
Chem. Phys. Lett., **359** (2002) 177.

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  $\alpha'$ - $\text{NaV}_2\text{O}_5$   
J. Phys. Soc. Jpn., **71** (2002) 385.

S.Fujiki, Y.Kubozono, M.Kobayashi, T.Kambe,  
Y.Rikiishi, S.Kashino, K.Ishii, H.Suematsu and  
A.Fujiwara  
Structure and Physical Properties of  $\text{Cs}_{3+\alpha}\text{C}_{60}$  ( $\alpha = 0.0$   
-  $1.0$ ) under Ambient and High Pressures  
Phys. Rev. B, **65** (2002) 235425.

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  $\text{NaV}_2\text{O}_5$   
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.Tajiri, S.Maruoka, H.Deguchi, S.Takagi, M.Mito,  
Y.Ishida and S.Kohiki  
Superparamagnetic Behavior of  $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$   
Nanoparticles in the MCM-41 Molecular Sieve  
Physica B, **329-333** (2002) 860.

Y.Maruyama, S.Motohashi, N.Sakai, K.Watanabe,  
K.Suzuki, H.Ogata and Y.Kubozono  
Possible Competition of Superconductivity and  
Ferromagnetism in  $\text{Ce}_x\text{C}_{60}$  Compounds  
Solid State Commun., **123** (2002) 229.

Y.Takabayashi, Y.Kubozono, T.Kanbara, S.Fujiki,  
K.Shibata, Y.Haruyama, T.Hosokawa, Y.Rikiishi and  
S.Kshino  
Pressure and Temperature Dependences of the Structural  
Properties of  $\text{Dy}@C_{82}$  Isomer I  
Phys. Rev. B, **65** (2002) 073405.

M.Mito, H.Deguchi, T.Tanimoto, T.Kawae, S.Nakatsuji,  
H.Morimoto, H.Anzai, H.Nakao, Y.Murakami and  
K.Takeda  
Pressure Effects on an Organic Radical Ferromagnet:  
2,5-Difluorophenyl- $\alpha$ -Nitronyl Nitroxide  
Phys. Rev. B, **67** (2003) 024427.

K.Ejima, T.Tajiri, H.Deguchi, M.Mito, S.Takagi,  
K.Ohwada, H.Nakao and Y.Murakami  
Pressure Effect on the Magnetism and Structure of a  
Spin-Peierls Substance: MEM-[TCNQ]<sub>2</sub>  
Physica B, **329-333** (2003) 1195.

Y.Wakabayashi, Y.Murakami, I.Koyama, T.Kimura,  
Y.Tokura, Y.Moritomo, Y.Endoh and K.Hirota  
Resonant X-Ray Study on the Bi-Layered Perovskite Mn  
Oxide  $\text{LaSr}_2\text{Mn}_2\text{O}_7$   
J. Phys. Soc. Jpn., **72** (2003) 618.

M.Mito, H.Akama, H.Deguchi, S.Takagi, T.Kawae,  
K.Takeda, T.Ishii, M.Yamashita, H.Nakao, Y.Murakami  
and S.Yamamoto  
Pressure Effects on an  $S = 1$  Haldane Compound  
 $\text{Ni}(\text{C}_5\text{H}_{14}\text{N}_2)_2\text{N}_3(\text{PF}_6)$   
J. Phys. Soc. Jpn., **72** (2003) 399.

K.Kuwahara, H.Sagayama, K.Iwasa, M.Kohgi,  
S.Miyazaki, J.Nozaqi, J.Nogami, M.Yokoyama,  
H.Amitsuka, H.Nakao and Y.Murakami  
High Pressure X-Ray Diffraction Study of  $\text{URu}_2\text{Si}_2$   
Acta Physica Polonica B, **34** (2003) 4307.

K.Shibata, Y.Rikiishi, T.Hosokawa, Y.Haruyama,  
Y.Kubozono, S.Kashino, T.Uruga, A.Fujiwara,  
H.Kitagawa, T.Takano and Y.Iwasa  
Structural and Electronic Properties of  $\text{Ce}@C_{82}$   
Phys. Rev. B, **68** (2003) 094104.

S.Kohiki, Y.Ishida, S.Nogami, H.Shimooka, T.Tajiri,  
H.Deguchi, M.Mitome and M.Oku  
Magnetic Properties of  $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$  Nanocrystals  
Embedded in a Mesoporous Silicate  
Mat. Res. Soc. Symp. Proc., **776** (2003) 231.

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.Ishimoto, M.Tachikawa, M.Yamauchi, H.Kitagawa, H.Tokiwa and U.Nagashima  
Analysis of Isotope Effect of Hydrogen-Absorbing Pd Ultra-Fine Particle by X-Ray Powder Diffraction and First Principle Multi-Component MO Calculation  
Chem. Phys. Lett., **372** (2003) 503.

T.Hara, M.Kobayashi, Y.Akahama, H.Kawamura, M.Kosaka and K.Tanigaki  
Metallic Phase in Potassium Fulleride  $K_xC_{70}$ : Electrical, Magnetic, and Structural Properties of  $K_4C_{70}$   
Phys. Rev. B, **68** (2003) 045401.

H.Amitsuka and M.Yokoyama  
Inhomogeneous Magnetism and Hidden Order in  $URu_2Si_2$   
Physica B, **329-333** (2003) 452.

S.Shinohara, M.Yamauchi, S.Ishimaru and R.Ikeda  
Structures and Dynamics of  $n$ -Dodecyltrimethylammonium Ions Intercalated into Sodium Octosilicate and Tetrasilicifluoromica  
J. Phys.: Condens. Matter, **15** (2003) 7253.

M.Yamauchi, Y.Isobe, R.Ikeda and H.Kitagawa  
A Study on Hydrogen Adsorption of Polymer-Protected Pt Nanoparticles  
Synth. Met., **135** (2003) 757.

Y.Kubozono, Y.Takabayashi, K.Shibata, T.Kanbara, S.Fujiki, S.Kashino, A.Fujiwara and S.Emura  
Crystal Structure and Electronic Transport of  $Dy@C_{82}$   
Phys. Rev. B, **67** (2003) 115410.

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  $NaTiSi_2O_6$   
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  $\alpha'$ - $NaV_2O_5$   
Physica B, **329-333** (2003) 878.

Y.Maniwa, H.Kataura, M.Abe, A.Fujiwara, R.Fujiwara, H.Kira, H.Tou, S.Suzuki, Y.Achiba, E.Nishibori, M.Takata, M.Sakata and H.Suematsu  
 $C_{70}$  Molecular Stumbling Inside Single-Walled Carbon Nanotubes  
J. Phys. Soc. Jpn., **72** (2003) 45.

## 2004

Y.Ishida, S.Kohiki, S.Nogami, H.Shimooka, T.Tajiri, H.Deguchi, M.Mitome and Y.Bando  
Suppression of Ferromagnetic Properties for  $La_{1-x}Sr_xMnO_3$  ( $x=0.15$ ) Nanoparticles  
J. Ceramic Soc. Jpn., **112** (2004) S873.

Y.Kubozono, Y.Rikiishi, K.Shibata, T.Hosokawa, S.Fujiki and H.Kitagawa,  
Structural and Transport Properties of Isomer-Separated  $C_{82}$   
Phys. Rev. B, **69** (2004) 165412.

T.Ishimoto, M.Tachikawa, M.Yamauchi, H.Kitagawa, H.Tokiwa and U.Nagashima  
Isotope Effect in Hydrogen/Deuterium-Absorbing Pd Nanoparticles Revealed by X-Ray Powder Diffraction and by a Multi-Component MO Method  
J. Phys. Soc. Jpn., **73** (2004) 1775.

H.Kitagawa and M.Yamauchi  
Hydrogen Storage in Metal Nanoparticles  
Chemical Industry, **55** (2004) 954. (*in Japanese*).

Y.Rikiishi, Y.Kubozono, T.Hosokawa, K.Shibata, Y.Haruyama, Y.Takabayashi, A.Fujiwara, S.Kobayashi, S.Mori and Y.Iwasa  
Structural and Electronic Characterizations of Two Isomers of  $Ce@C_{82}$   
J. Phys. Chem. B, **108** (2004) 7580.

A.Yamamoto, H.Takakura and A.P.Tsai  
Refinement of i-Al-Cu-Fe and i-Al-Cu-Ru Quasicrystal Structures  
Ferroelectrics, **305** (2004) 279.

C.H.Lee, H.Matsuhata, H.Yamaguchi, C.Sekine and I.Shirota  
A Study of the Crystal Structure at Low Temperature in Metal-Insulator Transition Compound  $PrRu_4P_{12}$   
J. Magn. Magn. Mater., **272-276** (2004) 426.

H.Takakura, A.Yamamoto and A.P.Tsai  
Re-Refinement of the Basic Decagonal Al-Co-Ni Phase  
Ferroelectrics, **305** (2004) 257.

A.Yamamoto and H.Takakura  
Structure Refinement of Quasicrystals  
Ferroelectrics, **305** (2004) 223.

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.

T.Hosokawa, S.Fujiki, E.Kuwahara, Y.Kubozono, H.Kitagawa, A.Fujiwara, T.Takenobu and Y.Iwasa  
Electronic Properties for the  $C_{2v}$  and  $C_s$  Isomers of  $Pr@C_{82}$  Studied by Raman, Resistivity and Scanning Tunneling Microscopy/Spectroscopy  
Chem. Phys. Lett., **395** (2004) 78.

## 2005

M.Mito, H.Deguchi, T.Tajiri, S.Takagi, M.Yamashita and H.Miyasaka  
Effect of Pressure on Single-Chain Magnets with Repeating Units of the  $Mn^{III}-Ni^{II}-Mn^{III}$  Trimer  
Phys. Rev. B, **72** (2005) 144421.

M.Fujishima, M.Yamauchi and H.Kitagawa  
Hydrogen Storage Materials -Polymer Materials-  
Advanced Materials for Hydrogen Energy, (2005) 157.  
(in Japanese).

Y.Maniwa, H.Kataura, M.Abe, A.Udaka, S.Suzuki,  
Y.Achiba, H.Kira, K.Matsuda, H.Kadowaki and  
Y.Okabe

Ordered Water Inside Carbon Nanotubes: Formation of  
Pentagonal to Actagonal Ice-Nanotubes  
Chem. Phys. Lett., **401** (2005) 534.

M.Yamauchi and H.Kitagawa  
Hydrogen Absorption in Size-Controlled Pt Nanoparticle  
Chemical Engineering Transactions, (2005)

M.Yamauchi and H.Kitagawa  
Hydrogen Absorption of the Polymer-Coated Pd  
Nanoparticle  
Synthetic Metals, **153** (2005) 353.

Y.Rikiishi, Y.Kashino, H.Kusai, Y.Takabayashi,  
E.Kuwahara, Y.Kubozono, T.Kambe, T.Takenobu,  
Y.Iwasa, N.Mizorogi, S.Nagase and S.Okada  
Metallic Phase in the Metal-Intercalated Higher  
Fullerene  $Rb_{8.8(7)}C_{84}$   
Phys. Rev. B, **71** (2005) 224118.

## 2006

H.Sagayama, Y.Wakabayashi, H.Sawa, T.Kamiyama,  
A.Hoshikawa, S.Haryo, K.Uozato, A.K.Ghosh,  
M.Tokunaga and T.Tamegai  
Two Types of Multistack Structures in  $MgB_2$ -Type  
Superconductor  $CaAlSi$   
J. Phys. Soc. Jpn., **75** (2006) 043713.

S.Takaishi, D.Kawakami, M.Yamashita, M.Sasaki,  
T.Kajiwara, 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  
 $[Pt(chxn)_2]I_2$   
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.Endo, T.Kawamoto, T.Mori, I.Terasaki, T.Kakiuchi,  
H.Sawa, M.Kodani, K.Takimiya and T.Otsubo  
Current-Induced Metallic State in an Organic (EDT-  
TSF) $_2GaCl_4$  Conductor  
J. Am. Chem. Soc., **128** (2006) 9006.

K.Otsubo, A.Kobayashi, H.Kitagawa, M.Hedo,  
Y.Uwatoko, H.Sagayama, Y.Wakabayashi and H.Sawa  
Most Stable Metallic Phase of the Mixed-Valence  
MMX-Chain,  $Pt_2(dtp)_4I$  ( $dtp:C_2H_5CS_2^-$ ), in Purely d-  
Electronic Conductors Based on the Transition-Metal  
Complex  
J. Am. Chem. Soc., **128** (2006) 8140.

S.Kuroiwa, H.Sagayama, T.Kakiuchi, H.Sawa, Y.Noda  
and J.Akimitsu  
Correlation between Crystal Structures of  $CaAlSi$   
with and without Superlattice and Superconducting  
Properties  
Phys. Rev. B, **74** (2006) 014517.

T.Wakahara, H.Nikawa, T.Kikuchi, T.Nakahodo,  
G.M.A.Rahman, T.Tsuchiya, Y.Maeda, T.Akasaka,  
K.Yoza, E.Horn, K.Yamamoto, N.Mizorogi, Z.Slanina  
and S.Nagase  
 $La@C_{72}$  Having a Non-IPR Carbon Cage  
J. Am. Chem. Soc., **128** (2006) 14228.

T.Tajiri, H.Deguchi, S.Kohiki, M.Mito, S.Takagi,  
K.Tsuda and Y.Murakami  
Novel Size Effect of  $LaMnO_{3+\delta}$  Nanocrystals Embedded  
in SBA-15 Mesoporous Silica  
J. Phys. Soc. Jpn., **75** (2006) 113704.

A.Kobayashi, A.Tokunaga, R.Ikeda, H.Sagayama,  
Y.Wakabayashi, H.Sawa, M.Hedo, Y.Uwatoko and  
H.Kitagawa  
Pressure-Induced Metal-Semiconductor-Metal  
Transitions in an MMX-Chain Complex,  
 $Pt_2(C_2H_5CS_2)_4I$   
Eur. J. Inorg. Chem., (2006) 3567.

D.Kawakami, M.Yamashita, S.Matsunaga, S.Takaishi,  
T.Kajiwara, H.Miyasaka, K.Sugiura, H.Matsuzaki,  
H.Okamoto, Y.Wakabayashi and H.Sawa  
Halogen-Bridged  $Pt^{II}/Pt^{IV}$  Mixed-Valence Ladder  
Compounds  
Angew. Chem. Int. Ed., **45** (2006) 7214.

C.Yamamoto, H.Nichikawa, M.Nihei, T.Shiga, M.Hedo,  
Y.Uwatoko, H.Sawa, H.Kitagawa, Y.Taguchi, Y.Iwasa  
and H.Oshio  
Electrical Conducting Bis(Oxalato)platinate Complex  
with Direct Connection of  $Cu^{II}$  Ions  
Inorg. Chem., **45** (2006) 10270.

Y.Maniwa, S.Masubuchi, T.Minamisawa, H.Kira,  
T.Kodaira and S.Kazama  
Thermochromism in Sodium-Loaded Zeolite FAU(1.25)  
Chem. Phys. Lett., **424** (2006) 97.

T.Tajiri, H.Deguchi, M.Mito and S.Takagi  
Pressure-Induced Magnetic Phase Transition and  
Structural Change in the Quantum Spin Liquid System  
 $Cu_2(C_5H_{12}N_2)_2Br_4$   
J. Phys. Soc. Jpn., **75** (2006) 044708.

K.Yanagi, K.Iakoubovskii, S.Kazaoui, N.Minami, Y.Maniwa, Y.Miyata and H.Kataura  
Light-Harvesting Function of  $\beta$ -Carotene Inside Carbon Nanotubes  
Phys. Rev. B, **74** (2006) 155420.

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  $\text{NaV}_2\text{O}_5$   
Modern Phys. Lett. B, **20** (2006) 199.

M.Fujishima, M.Yamauchi, R.Ikeda, T.Kubo, K.Nakasuji and H.Kitagawa  
Powder XRD and Solid-State  $^2\text{H}$  NMR Studies on RAP-Protected Palladium Nanoparticle (RAP=Rubeanic-Acid Polymer)  
Solid State Phenom., **111** (2006) 107.

## 2007

M.Ogawa, M.Mito, T.Tajiri, H.Deguchi, S.Takagi, K.Nakata, M.Yamashita and H.Miyasaka  
Pressure Effects on  $\text{Mn}_4$  Single-Molecule Magnet with Two-Dimensional Correlation  
J. Magn. Magn. Mater., **310** (2007) e489.

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.

K.Yakigaya, A.Takeda, Y.Yokoyama, S.Ito, T.Miyazaki, T.Suetsuna, H.Shimotani, T.Kakiuchi, H.Sawa, H.Takagi, K.Kitazawa and N.Dragoe  
Superconductivity of Doped  $\text{Ar}@C_{60}$   
New J. Chem., **31** (2007) 973.

H.Ikemoto, S.Yoshida and A.Goyou  
X-Ray Diffraction Study of Bismuth Nanoparticles  
e-J. Surf. Sci. Nanotech., **5** (2007) 110.

S.Yamashita, T.Shiga, M.Kurashina, M.Nihei, H.Nojiri, H.Sawa, T.Kakiuchi and H.Oshio  
Manganese(III,IV) and Manganese(III) Oxide Clusters Trapped by Copper(II) Complexes  
Inorg. Chem., **46** (2007) 3810.

Y.Maniwa, K.Matsuda, H.Kyakuno, S.Ogasawara, T.Hibi, H.Kadowaki, S.Suzuki, Y.Achiba and H.Kataura  
Water-Filled Single-Wall Carbon Nanotubes as Molecular Nanovalves  
Nature Materials, **6** (2007) 135.

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*).

Y.Bando, M.Ashizawa, T.Matsuzawa, N.Takashita, T.Kawamoto, T.Mori, T.Kakiuchi, H.Sawa, K.Takimiya, T.Otsubo, Y.Misaki and J.Yamada  
New Strategies for Designing TTP-Based Donor Molecules  
"Multifunctional Conducting Molecular Materials" ed. by G. Saito et al., (2007) 139.

K.Yanagi, K.Iakoubovskii, H.Matsui, H.Matsuzaki, H.Okamoto, Y.Miyata, Y.Maniwa, S.Kazaoui, N.Minami and H.Kataura  
Photosensitive Function of Encapsulated Dye in Carbon Nanotubes  
J. Am. Chem. Soc., **129** (2007) 4992.

H.Endo, T.Kawamoto, T.Mori, T.Kakiuchi, H.Sawa, M.Kodani, K.Takimiya and T.Otsubo,  
Crystal Structures and Physical Properties of the New Organic Conductors  $(\text{EDT-TSF})_2\text{GaCl}_4$  and  $(\text{EDT-TSF})_2\text{FeCl}_4$   
"Multifunctional Conducting Molecular Materials", ed. by G. Saito et al., (2007) 165.

T.Kakiuchi, Y.Wakabayashi, H.Sawa, T.Takahashi and T.Nakamura  
Charge Ordering in  $\alpha$ - $(\text{BEDT-TTF})_2\text{I}_3$  by Synchrotron X-Ray Diffraction  
J. Phys. Soc. Jpn., **76** (2007) 113702.

T.Kawamoto, T.Mori, T.Kakiuchi, H.Sawa, T.Shirahata, M.Kibune, H.Yoshino and T.Imakubo  
Domain Formation in the Structural Phase Transition of the Organic Superconductor  $\kappa_L$ - $(\text{DMEDO-TSeF})_2[\text{Au}(\text{CN})_4](\text{THF})$   
Phys. Rev. B, **76** (2007) 134517.

S.Shimomura, K.Torashima, N.Wakabayashi, K.Nishimoto, T.Tonegawa, N.Hamaya, H.Sawa, Y.Tomioka and Y.Tokura  
X-Ray Diffraction Study on Charge and Orbital Order in  $\text{Pr}_{0.65}\text{Ca}_{0.35}\text{MnO}_3$  under High Pressure  
J. Phys. Soc. Jpn., **76** (2007) 124603.

T.Kakiuchi, Y.Wakabayashi, H.Sawa, T.Itou and K.Kanoda  
Wigner Crystallization in  $(\text{DI-DCNQI})_2\text{Ag}$  Detected by Synchrotron Radiation X-Ray Diffraction  
Phys. Rev. Lett., **98** (2007) 066402.

T.Tajiri, S.Matsumoto, H.Deguchi, M.Mito, S.Takagi, C.Moriyoshi, K.Itoh and K.Koyama  
Effect of Pressure on Two-Dimensional Heisenberg Antiferromagnet  $\text{Cu}(\text{HCOO})_2 \cdot 4\text{H}_2\text{O}$   
J. Magn. Magn. Mater., **310** (2007) e566.

## 2008

M.Ohba, W.Kaneko, S.Kitagawa, T.Maeda and M.Mito  
Pressure Response of Three-Dimensional Cyanide-Bridged Bimetallic Magnets  
J. Am. Chem. Soc., **130** (2008) 4475.

T.Tajiri, H.Deguchi, S.Kohiki, M.Mito, S.Takagi, M.Mitome, Y.Murakami and A.Kohno  
Phase Separation in  $\text{La}_{1-x}\text{Sr}_x\text{MnO}_{3+\delta}$  Nanocrystals Studied by Electron Spin Resonance  
*J. Phys. Soc. Jpn.*, **77** (2008) 074715.

M.Mito, M.Fujino, Y.Komorida, H.Deguchi, S.Takagi, W.Fujita and K.Awaga  
Pressure-Induced Ferromagnetic to Nonmagnetic Transition and the Enhancement of Ferromagnetic Interaction in the Thiazyl-Based Organic Ferromagnet  $\gamma$ -BBDTA-GaCl<sub>4</sub>  
*J. Phys. Soc. Jpn.*, **77** (2008) 124719.

T.Akitsu and Y.Einaga  
Tuning of Electronic Properties of One-Dimensional Cyano-Bridged  $\text{Cu}^{\text{II}}\text{-Ni}^{\text{II}}$ ,  $\text{Cu}^{\text{II}}\text{-Pd}^{\text{II}}$ , and  $\text{Cu}^{\text{II}}\text{-Pt}^{\text{II}}$  Bimetallic Assemblies by Stereochemistry of Ligands  
*Inorg. Chimica Acta*, **361** (2008) 36.

X.Lu, H.Nikawa, T.Nakahodo, T.Tsuchiya, M.O. Ishitsuka, Y.Maeda, T.Akasaka, M.Toki, H.Sawa, Z.Slanina, N.Mizorogi and S.Nagase  
Chemical Understanding of a Non-IPR Metallofullerene: Stabilization of Encaged Metals on Fused-Pentagon Bonds in  $\text{La}_2\text{@C}_{72}$   
*J. Am. Chem. Soc.*, **130** (2008) 9129.

Y.Takano, A.Yomogida, H.Nikawa, M.Yamada, T.Wakahara, T.Tsuchiya, M.O.Ishitsuka, Y.Maeda, T.Akasaka, T.Kato, Z.Slanina, N.Mizorogi and S.Nagase  
Radical Coupling Reaction of Paramagnetic Endohedral Metallofullerene  $\text{La}@C$   
*J. Am. Chem. Soc.*, **130** (2008) 16224.

X.Lu, H.Nikawa, T.Tsuchiya, Y.Maeda, M.O.Ishitsuka, T.Akasaka, M.Toki, H.Sawa, Z.Slanina, N.Mizorogi and S.Nagase  
Bis-Carbene Adducts of Non-IPR  $\text{La}_2\text{@C}_{72}$ : Localization of High Reactivity around Fused Pentagons and Electrochemical Properties  
*Angew. Chem. Int. Ed.*, **47** (2008) 8642.

T.Nakahodo, M.Okada, H.Morita, T.Yoshimura, M.O.Ishitsuka, T.Tsuchiya, Y.Maeda, H.Fujihara, T.Akasaka, X.Gao and S.Nagase  
[2 + 1] Cycloaddition of Nitrene onto  $\text{C}_{60}$  Revisited: Interconversion between Aziridinofullerene and Azafulleroid  
*Angew. Chem. Int. Ed.*, **47** (2008) 1298.

## 2009

M.Mito, S.Kawagoe, H.Deguchi, S.Takagi, W.Fujita, K.Awaga, R.Kondo and S.Kagoshima  
Effects of Hydrostatic Pressure and Uniaxial Strain on Spin-Peierls Transition in an Organic Radical Magnet, BBDTA-InCl<sub>4</sub>  
*J. Phys. Soc. Jpn.*, **78** (2009) 124705.

T.Tajiri, M.Harazono, T.Kitamura, H.Deguchi, S.Kohiki, M.Mito, A.Kohno and S.Takagi  
Magnetic Properties of  $\text{BiMnO}_3$  Nanoparticles in SBA-15 Mesoporous Silica  
*J. Phys.: Conf. Ser.*, **150** (2009) 042198.

Y.Komorida, M.Mito, H.Deguchi, S.Takagi, A.Millan, N.J.O.Silva and F.Palacio  
Surface and Core Magnetic Anisotropy in Maghemite Nanoparticles Determined by Pressure Experiments  
*Appl. Phys. Lett.*, **94** (2009) 202503.

F.Mikami, K.Matsuda, H.Kataura and Y.Maniwa  
Dielectric Properties of Water Inside Single-Walled Carbon Nanotubes  
*ACS Nano*, **3** (2009) 1279.

Y.Bando, T.Kawamoto, T.Mori, T.Kakiuchi, H.Sawa, K.Takimiya and T.Otsubo  
Organic Superconductivity Enhanced by Asymmetric-Anion Random Potential in  $(\text{MDT-TS})\text{I}_{0.85}\text{Br}_{0.41}$  [MDT-TS = 5*H*-2-(1,3-diselenole-2-ylidene)-1,3,4,6-tetrathiapentalene]  
*Chem. Mater.*, **21** (2009) 3521.

M.Mito, K.Matsumoto, Y.Komorida, H.Deguchi, S.Takagi, T.Tajiri, T.Iwamoto, T.Kawae, M.Tokita and K.Takeda  
Volume Shrinkage Dependence of Ferromagnetic Moment in Lanthanide Ferromagnets Gadolinium, Terbium, Dysprosium, and Holmium  
*J. Phys. Chem. Solids*, **70** (2009) 1290.

## 2010

H.Tsuruda, Y.Komorida, M.Mito, H.Deguchi, S.Takagi, T.Iwamoto and Y.Kitamoto  
Observation of Two Kinds of ESR Spectra in FePt Nanoparticles  
*J. Phys.: Conference Series*, **200** (2010) 072102.

X.Lu, H.Nikawa, T.Tsuchiya, T.Akasaka, M.Toki, H.Sawa, N.Mizorogi and S.Nagase  
Nitrated Benzyne Derivatives of  $\text{La}@C_{82}$ : Addition of  $\text{NO}_2$  and Its Positional Directing Effect on the Subsequent Addition of Benzynes  
*Angew. Chem. Int. Ed.*, **49** (2010) 594.

Y.Komorida, M.Mito, H.Deguchi, S.Takagi, T.Tajiri, A.Millan, N.Silva, M.Laguna and F.Palacio  
Effects of Pressure on Maghemite Nanoparticles with a Core/Shell Structure  
*J. Magn. Magn. Mater.*, **322** (2010) 2117.

Y.Maeda, S.Sato, K.Inada, H.Nikawa, M.Yamada, N.Mizorogi, T.Hasegawa, T.Tsuchiya, T.Akasaka, T.Kato, Z.Slanina and S.Nagase  
Regioselective Exohedral Functionalization of  $\text{La}@C_{82}$  and its 1,2,3,4,5- Pentamethylcyclopentadiene and Adamantylidene Adducts  
*Chem. Eur. J.*, **16** (2010) 2193.

R.Mitsuhashi, Y.Suzuki, Y.Yamanari, H.Mitamura, T.Kambe, N.Ikeda, H.Okamoto, A.Fujiwara, M.Yamaji, N.Kawasaki, Y.Maniwa and Y.Kubozono  
Superconductivity in Alkali-Metal-Doped Picene  
Nature, **464** (2010) 76.

T.Tajiri, M.Harazono, H.Deguchi, M.Mito, A.Kohno and S.Kohiki  
Synthesis and Magnetic Property of Multiferroic BiMnO<sub>3</sub> Nanoparticles in the Pores of Mesoporous Silica  
Jpn. J. Appl. Phys., **49** (2010) 06GH04.

---

## 8B

### 2009

F.Mikami, K.Matsuda, H.Kataura and Y.Maniwa  
Dielectric Properties of Water Inside Single-Walled Carbon Nanotubes  
ACS Nano, **3** (2009) 1279.

A.Kobayashi, Y.Fukuzawa, S.Noro, T.Nakamura and M.Kato  
Stepwise Vapochromism Observed for a Simple Terpyridine-Platinum(II) Complex with a Thiocyanato Ligand  
Chem. Lett., **38** (2009) 998.

T.Akitsu and K.Sano  
Analogy of Van't Hoff Relationship for Thermally-Accessible Lattice Strain of Copper(II) Complex  
Netsu Sokutei, **36** (2009) 244.

J.Kano, T.Kizuka, F.Shikanai and S.Kojima  
Pure Lead Nanoparticles with Stable Metallic Surfaces on Perovskite Lead Strontium Titanate Particles  
Nanotechnology, **20** (2009) 295704.

M.Yamada, M.Okamura, S.Sato, C.I.Someya, N.Mizorogi, T.Tsuchiya, T.Akasaka, T.Kato and S.Nagase  
Two Regioisomers of Endohedral Pyrrolidinodimetallofullerene M<sub>2</sub>@I<sub>h</sub>-C<sub>80</sub> (CH<sub>2</sub>)<sub>2</sub>NTrt (M = La, Ce; Trt = trityl): Control of the Metal Positions by Addition Positions  
Chem. Eur. J., **15** (2009) 10533.

### 2010

R.Mitsuhashi, Y.Suzuki, Y.Yamanari, H.Mitamura, T.Kambe, N.Ikeda, H.Okamoto, A.Fujiwara, M.Yamaji, N.Kawasaki, Y.Maniwa and Y.Kubozono  
Superconductivity in Alkali-Metal-Doped Picene  
Nature, **464** (2010) 76.

T.Akitsu, M.Okawara and K.Sano  
Variable Temperature Powder X-Ray Synchrotron Diffraction Studies on Chiral Cu(II) and Dicyano Ag(I), Au(I) Bimetallic Assemblies  
Asian Chemistry Letters, **14** (2010) 1.

A.Kobayashi, T.Yonemura and M.Kato  
Vapour-Induced Amorphous-Crystalline Transformation of a Luminescent Platinum(II)-Diimine Complex  
Eur. J. Inorg. Chem., (2010) 2465.

K.Kishimoto, T.Ishikura, H.Nakamura, Y.Wakabayashi and T.Kimura  
Antiferroelectric Lattice Distortion Induced by Ferroquadrupolar Order in DyVO<sub>4</sub>  
Phys. Rev. B, **82** (2010) 012103.

A.Kobayashi, H.Hara, S.Noro and M.Kato  
Multifunctional Sensing Ability of a New Pt/Zn-Based Luminescent Coordination Polymer  
Dalton Trans., **39** (2010) 3400.

A.Kobayashi, M.Dosen, M.Chang, K.Nakajima, S.Noro and M.Kato  
Synthesis of Metal-Hydrazone Complexes and Vapochromic Behavior of their Hydrogen-Bonded Proton-Transfer Assemblies  
J. Am. Chem. Soc., **132** (2010) 15286.

H.Sakai, S.Ishiwata, D.Okuyama, A.Nakao, H.Nakao, Y.Murakami, Y.Taguchi and Y.Tokura  
Electron Doping in the Cubic Perovskite SrMnO<sub>3</sub>: Isotropic Metal Versus Chainlike Ordering of Jahn-Teller Polarons  
Phys. Rev. B, **82** (2010) 180409.

K.Kishimoto, Y.Wakabayashi and T.Kimura  
Antiferroelectric Distortion Induced by Ferro-Quadrupolar Ordering in DyVO<sub>4</sub>  
J. Cryst. Soc. Jpn., **52** (2010) 239. (*in Japanese*).