

[002] 九州大学低温センターだより表紙奥付等

<https://hdl.handle.net/2324/14771>

出版情報：九州大学低温センターだより．2，2008-03．九州大学低温センター
バージョン：
権利関係：

理学研究院
物理学部門

- 1 Effect of pressure on the Spin-Polarized Intergrain Tunneling in Single and Polycrystalline $\text{Sr}_2\text{FeMoO}_6$
S. KAJI, G. OOMI, Y. TOMIOKA and Y. TOKURA
Phys. Rev. B, **75**, 024430-1-5, (2007).
- 2 Pressure-induced electronic crossover in the ordered Fe_3Pt
G. OOMI, R. SAITO, S. IWAI, and Y. FUCHIZAKI
J. Magn. Magn. Mater. **310**, E212-E213, (2007).
- 3 Effect of pressure on the metamagnetic transition of DyB_6 single crystal
T. SAKAI, G. OOMI, Y. UWATOKO and S. KUNII
J. Magn. Magn. Mater. **310**, 1732-1734, (2007).
- 4 Pressure effect on elastic properties in $\text{SmRu}_4\text{P}_{12}$
P. SUN, Y. NAKANISHI, M. NAKAMURA, M. OHASHI, G. OOMI,
C. SEKINE, I. SHIROTANI and M. YOSHIZAWA
J. Magn. Magn. Mater. **310**, E169-E171, (2007).
- 5 Pressure-Induced Enhancement of Giant Magnetoresistance due to Crossover of Interlayer Exchange Coupling in Fe/Cr Multilayers
K. SUENAGA, S. HIGASHIHARA, M. OHASHI, G. OOMI, M. HEDO, Y. UWATOKO, K. SAITO, S. MITANI and K. TAKANASHI
Phys. Rev. Lett. **98**, 207202-1-4, (2007).
- 6 Thermal expansion measurement using strain gauge under high pressure - application to rare earth compounds
H. MIYAGAWA, T. SAKAI, M. OHASHI and G. OOMI
Proc. of the Asian Themophysical Properties Conf. 21-24 Aug., 2007, Fukuoka, Jpn. Paper No. 251
- 7 Effect of pressure on the magnetic structural properties of GdCu
J. RODRIGUEZ FERNANDEZ, M. OHASHI, A. TASHIRO, G. OOMI

and J. C. GOMEZ SAL

J. Phys. Soc. Jpn, Suppl. A. **76**, 51-53, (2007).

- 8 Effect of pressure on electrical resistivity and magnetoresistance of α -Ce
Y. SAKIGAWA, M. OHASHI and G. OOMI
J. Phys. Soc. Jpn, Suppl. A. **76**, 66-67, (2007).
- 9 Synthesis of heavy fermion Ce compound under high pressure
H. MIYAGAWA, G. OOMI, M. OHASHI, T. KAWAE, T. KUBO and T. KATO
J. Phys. Soc. Jpn, Suppl. A. **76**, 72-73, (2007).
- 10 Thermal Expansion Characteristics Associated with Spin Fluctuations under Applied
Magnetic Field and High pressure for $\text{Lu}(\text{Co}_{0.9}\text{Ga}_{0.1})_2$ Laves Compound
M. OHTA, A. FUJITA, K. FUKAMICHI, H. SAITO, T. KAGAYAMA,
G. OOMI and T. GOTO
J. Phys. Soc. Jpn, Suppl. A. **76**, 84-85, (2007).
- 11 Anomalous Pressure-induced Enhancement of GMR in Fe/Cr Magnetic Multilayers
K. SUENAGA, S. HIGASHIHARA, G. OOMI, K. SAITO,
S. MITANI and K. TAKANASHI
J. Phys. Soc. Jpn, Suppl. A. **76**, 90-91, (2007).
- 12 New apparatus for precise electrical transport measurements under quasi-hydrostatic pressure
up to 15 GPa
M. OHASHI and G. OOMI
J. Phys. Soc. Jpn, Suppl. A. **76**, 226-227, (2007).
- 13 High pressure study of novel electronic properties in $\text{Sr}_2\text{Fe}(\text{W}_{1-x}\text{Mo}_x)\text{O}_6$ near metal-insulator
transition
G. OOMI, S. KAJI, Y. TOMIOKA and Y. TOKUTA
IJMPB **21**, 3279-3284, (2007).
- 14 AC magnetic susceptibility studies of single crystalline CeNiGe_2 under high pressure
M. OHASHI, G. OOMI, and I. SATOH
J. Phys. Soc. Jpn. **76**, 114712-1-3, (2007).

- 15 複合極限環境下における $\text{Ho}_{1-x}\text{Y}_x\text{Ni}_2\text{B}_2\text{C}$ ($x=0.65, 0.85$) の超伝導特性
九州大学大学院理学府 基礎粒子系科学専攻 多体系基礎論講座 II
崎川幸夫 (2006 年度)
- *
- 16 Direct measurements of magnetocaloric effects of $\text{Mn}_{1+x}\text{As}_{1-x}\text{Sb}_x$
H. WADA, T. ASANO, M. ILYN and A. M. TISHIN
J. Magn. Mater. 310 2811-2812 (2007)
- 17 Development of Room Temperature Magnetic Refrigerator –overall plan
N. HIRANO, S. NAGAYA, T. OKAMURA, T. KAWANAMI and H. WADA
Proc. 2nd Int. Conf. on Magnetic Refrigeration at Room Temperature, Portoroz, Slovenia Ed.A.
Poredoš and A. Šarlah , (IIR-IIF, Paris, 2007) p281-p287
- 18 Shock Compaction of $\text{MnAs}_{1-x}\text{Sb}_x$ Powder using Underwater Shock Wave
Y. K. KIM, H. WADA and S. ITOH
Proc. 15th APS Topical Conference on Shock Compression of Condensed Matter, Kohala Coast,
Hawaii, 2007.
- 19 Order-disorder transitions of t_{2g} -orbitals of V^{3+} ions and incommensurate structural
deformations in a metallic spinel CuV_2S_4 .
M. HIDAKA, N. TOKIWA, R. P. WIJESUNDERA, J. AWAKA, S. NAGATA, YOUNG JUN
PARK, and KI BONG LEE
Phys. Status Solidi(b) 244 2565-2575.V (2007)
- 20 Electrical resistivity of heavy fermion cubic YbCu_5 under high pressure
AKIHIRO MITSUDA, KIYONORI YAMAUCHI, NAOHITO TSUJII, KAZUYOSHI
YOSHIMURA, YOSIKAZU ISIKAWA and YUH YAMADA
J. Phys. Soc. Jpn. Vol. 76, Suppl. A, 78-79 (2007)
- 21 Origin of weak ferromagnetism in $\text{Yb}_x\text{Fe}_4\text{Sb}_{12}$, relationship between weak ferromagnetism and
filling ratio x
TSUYOSHI IKENO, AKIHIRO MITSUDA, TOSHIO MIZUSHIMA, TOMOHIKO KUWAI,
YOSIKAZU ISIKAWA, and ICHIRO TAMURA
J. Phys. Soc. Jpn. Vol. 76, 024708-1-7 (2007)

- 22 Transport properties under high pressure of antiferromagnet EuPt_2Si_2 with unstable Eu valence
Y. IKEDA, A. MITSUDA, N. IETAKA, T. MIZUSHIMA, Y. ISIKAWA and T. KUWAI
J. Magn. Magn. Matter. Vol.310, p.e62-e64 (2007)
- 23 Effect of filling ratio x of $\text{Yb}_x\text{Fe}_4\text{Sb}_{12}$ single crystals on weak-ferromagnetic transition
T. IKENO, A. MITSUDA, T. KUWAI, T. MIZUSHIMA, Y. ISIKAWA and I. TAMURA
J. Magn. Magn. Matter. Vol.310, p.e298-e300 (2007)
- 24 Possibility of Kondo effect in diluted EuPd_2Si_2 systems with constant lattice volume
T. KUWAI, H. SUZUKI, T. SAITOH, T. NAMBU, A. MITSUDA, T. MIZUSHIMA and Y. ISIKAWA
J. Magn. Magn. Matter. Vol.310, p.e68-e70 (2007)
- 25 Collapse of antiferromagnetism induced by Ni-substitution in $\text{Eu}(\text{Pt}_{1-x}\text{Ni}_x)_2\text{Si}_2$
A. MITSUDA, Y. IKEDA, N. IETAKA, S. FUKUDA and Y. ISIKAWA
J. Magn. Magn. Matter. Vol.310, p.319-321 (2007)
- 26 Submillimetre and millimetre wave ESR study of manganese spinel compound LiMn_2O_4
S. TAKANO, T. KAJI, S. OKUBO, H. OHTA, M. YOSHIDA, S. KIMURA, R. DZIEMBAJ, M. MOLENDNA, C. RUDOWICZ, Y. INAGAKI and T. ASANO
J. Phys.: Condens. Matter 19 145266 (2007).
- 27 Observation of Direct Transitions in the Ferromagnetic and Antiferromagnetic Dimer System $(\text{CH}_3)_2\text{NH}_2\text{CuCl}_3$ by High-Field ESR
M. YOSHIDA, Y. KITANO, Y. INAGAKI, T. SAKURAI, M. KIMATA, S. OKUBO, H. OHTA, K. KOYAMA, M. MOTOKAWA and Y. AJIRO
J. Phys. Soc. Jpn. 76 113704 (2007)
- 26 The magnetic properties of $S=1/2$ quasi-one-dimensional-quantum spin system DMACuCl_3 in magnetic fields
O. WADA, Y. YOSHIDA, Y. INAGAKI, T. ASANO, T. KAWAE, K. TAKEDA and Y. AJIRO
J. Magn. Magn. Mater. 310 384. (2007)
- 27 スピネル化合物 CdCr_2S_4 の強磁性的・強誘電的特性の相関
大学院理学府 修士課程 基礎粒子系科学専攻

上田誠一(2006 年度)

28 Yb₂Ni₁₂P₇ の純良試料育成と磁性

理学部物理学科

大隈俊哉(2006 年度)

29 La(FeCoSi)₁₃ の磁気冷凍特性

理学部物理学科

貞松康史(2006 年度)

30 Yb_{1-x}Y_xInNi₄ における強磁性の Y 濃度依存性

理学部物理学科

西原林太郎(2006 年度)

31 CuMoO₄ の構造と磁氣的性質

理学部物理学科

西村泰三(2006 年度)

*

32 Localization and Ordering of Carriers in a Quasi-One-Dimensional Electron System on Liquid Helium

V.A. Nikolaenko, I.B. Berkutov, Yu.Z. Kovdrya, R. Kobayashi and H. Yayama

J. Low Temp. Phys. Vol. 148, pp. 175-179, (2007)

33 Charge Transport in Quasi-One-Dimensional Electron System on Liquid Helium

R. Kobayashi, I.B. Berkutov, S. Yamanaka, T. Arai and H. Yayama

J. Phys. Soc. Jpn. Vol. 76, Suppl. A, pp. 196-197, (2007)

34 常磁性塩の断熱消磁冷却

矢山英樹

九州大学低温センターだより、創刊号、19-29 頁、(2007)。

*

35 ESR, STM, 中性子回折などによる強弾性ドメイン構造及び強弾性ヒステリシス曲線の研究

小林 正, 町田光男

固体物理, **42**, 535-549(2007).

36 NMR Study of Ferroelectric Liquid Crystal DOBAMBC

H. Yoshimitsu, Y. Tamura and M. Machida
Ferroelectrics, **348**, 144-148(2007).

- 37 NMR Study of Orientational Order in Nematic Liquid Crystal 7OCB
M. Machida and T. Kakiuchi
J. Korean Phys. Soc. **51-2**, 715-718(2007).
- 38 Isotope Effect of Glycinium Phosphite $\text{NH}_3\text{CH}_2\text{COOH}\cdot\text{H}_2\text{PO}_3$ Studied by Neutron
Diffraction
E. Magome, M. Machida, Y. Tamura and M. Komukae
J. Phys. Soc. Jpn, **76**, 124601-05(2007).
- 39 Crystal Structure of Monoclinic RbD_2PO_4 in the Ferrielectric Phase
E. Magome, M. Komukae and M. Machida
J. Korean Phys. Soc., **51**, 840-843(2007).
- 40 Neutron Diffraction Study of Ferrielectric Phase Transition in Monoclinic RbD_2PO_4
E. Magome, M. Komukae and M. Machida
J. Phys. Soc. Jpn., **76**, 044601-06(2007).
- 41 Crystal Structures of Tetragonal and Monoclinic RbD_2PO_4 Crystals
E. Magome, Y. Hayashi, M. Komukae and M. Machida
Ferroelectrics, **346**, 125-129(2007) .
- 42 Structural Study of Ferroelastic Phase Transition in TiH_2PO_4
G. Yoshida, K. Sawada, E. Magome, M. Komukae and M. Machida
Ferroelectrics, **346**, 120-124(2007).
- 43 プラスチック結晶 1-シアノアダマンタンの NMR
理学府凝縮系科学専攻(修士課程)
吉光大志
- *
- 44 Superconductor-Insulator Transitions in Quench-condensed Bi films on Different
Under layers
K. Makise, T. Kawaguti and B Shinozaki,
Physica E39(2007)30-36

- 45 Weak Localization and Electron-Electron Interaction Effects in Zinc Oxide films,
B.Shinozaki,¹ K.Makise,¹ Y.Shimane² and H.Nakamura²
J.Phys.Soc.Jpn.76 (2007)074718-1-074718-6.
- 46 In · Sb/Ge, In · Sb/Mo 膜の超伝導特性
大学院理学府 修士課程 凝縮系専攻
石原 隼 (2006年度)
- 47 低温蒸着 Au-Ge 薄膜の超伝導—絶縁体転移
大学院理学府 修士課程 凝縮系専攻
中西 博志 (2006年度)
- 48 縮退半導体 IZO,ITO,InO 膜の電気輸送特性
大学院理学府 修士課程 凝縮系専攻
船木 誠 (2006年度)

化学部門

- 1 Catalytic Asymmetric Hydrogenation of Heteroaromatic Compounds,Indoles
Ryoichi Kuwano
Journal of Synthetic Organic Chemistry, 65, 109, (2007)
- 2 Palladium-Catalyzed Nucleophilic Substitution of Diarylmethyl Carbonates with
Malonate Carbanions
RYOICHI KUWANO and HIROKI KUSANO
Chemistry Letters, 36, 528, (2007)
- 3 Palladium-Catalyzed Formal [4+2] Cycloaddition of *o*-Xylylenes with Olefins
RYOICHI KUWANO and TAKENORI SHIGE
Journal of the American Chemical Society, 129, 3802, (2007)
- 4 Use of Acetate as a Leaving Group in Palladium-Catalyzed Nucleophilic Substitution of
Benzylic Esters
MASASHI YOKOGI and RYOICHI KUWANO
Tetrahedron Letters, 48, 6109, (2007)
- 5 Bisindolylmaleimides with Large Stokes Shift and Long-Lasting Chemiluminescence

Properties

MANABU NAKAZONO, SHINKOH NANBU, AKIHIRO UESAKI, RYOICHI KUWANO,
MANABU KASHIWABARA, and KIYOSHI ZAITSU
Organic Letters, 9, 3583, (2007)

- 6 オルト- (スタニルメチル) ベンジルエステルを基質としたパラジウム触媒によるオレフィンとの[4+2]環化付加反応
理学部化学科
柴田 庸平 (2006 年度)
- 7 キノリンのベンゼン環選択的触媒的不斉水素化
理学部化学科
平佐田 一樹 (2006 年度)
- 8 ナフタレンの触媒的不斉水素化
理学部化学科
森岡 竜一 (2006 年度)
- 9 イリジウム触媒による炭酸ベンジル類のベンジル位アルキル化
理学部化学科
山本 梓 (2006 年度)
- 10 Catalytic Asymmetric Hydrogenation of Aromatic Compounds
大学院理学府分子科学専攻
柏原 学 (2006 年度)
- 11 Palladium-Catalyzed [4+2]Cycloaddition from *o*-(Silylmethyl)benzyl Esters
大学院理学府分子科学専攻
重 武慶 (2006 年度)
- 12 Palladium-Catalyzed Nucleophilic Substitution of Benzylic Esters
大学院理学府分子科学専攻
横木 正志 (2006 年度)
- *
- 13 symmetric catalysis of metal complexes with non-planar ONNO ligands: salen, salalen and salen.
MATSUMOTO KAZUHIRO, SAITO BUNNAI, and KATSUKI TSUTOMU
Chemical Communication, (35), 3619-3627 (2007).
- 14 Enantioselective epoxidation of conjugated Z-olefins with newly modified Mn(salen) complex.
EGAMI HIROMICHI, IRIE RYO, SAKAI KEN, and KATSUKI TSUTOMU
Chemistry Letters, 36(1), 46-47 (2007).

- 15 Asymmetric methanolysis of cyclic *meso*-anhydrides with tripodal 2,6-trans-1,2,6-trisubstituted piperidine as chiral amine catalyst.
OKAMATSU TOHRU, IRIE RYO and KATSUKI TSUTOMU
Synlett, (10), 1569-1572 (2007).
- 16 Fe(salen) Catalyzed Asymmetric Oxidation of Sulfides with Hydrogen Peroxide in Water.
EGAMI HIROMCHI and KATSUKI TSUTOMU
Journal of the American Chemical Society, 129(29), 8940-8941 (2007).
- 17 Asymmetric oxidation catalysis by a chiral Al(salalen) complex: highly enantioselective oxidation of sulfides with aqueous hydrogen peroxide.
YAMAGUCHI TETSUFUMI, MATSUMOTO KAZUHIRO, SAITO BUNNAI and KATSUKI TSUTOMU
Angewandte Chemie, International Edition, 46(25), 4729-4731 (2007).
- 18 Titanium-catalyzed asymmetric epoxidation of non-activated olefins with hydrogen peroxide.
SAWADA YUJI, MATSUMOTO KAZUHIRO and KATSUKI TSUTOMU
Angewandte Chemie, International Edition, 46(24), 4559-4561 (2007).
- 19 Synthesis of metal-(pentadentate-salen) complexes:
asymmetric Epoxidation with aqueous hydrogen peroxide and asymmetric cyclopropanation (salenH₂:N,N'-bis(salicylidene)ethylene-1,2 -diamine).
SHITAMA HIROAKI and KATSUKI TSUTOMU
Chemistry--A European Journal, 13(17), 4849-4858 (2007).
- 20 Construction of an aryliridium-salen complex for highly *cis*- and enantioselective cyclopropanations.
KANCHIKU SHIGEFUMI, SUEMATSU HIDEHIRO, MATSUMOTO KAZUHIRO, UCHIDA TATSUYA and KATSUKI TSUTOMU
Angewandte Chemie, International Edition, 46(21), 3889-3891 (2007).
- 21 Aerobic oxidative kinetic resolution of racemic alcohols with bidentate ligand-binding Ru(salen) complex as catalyst.
NAKAMURA YUKIE, EGAMI HIROMICHI, MATSUMOTO KAZUHIRO, UCHIDA TATSUYA and KATSUKI TSUTOMU

Tetrahedron, 63(28), 6383-6387 (2007).

- 22 Unique tripodal chiral tertiary amine, 2,6-trans-1,2,6-trisubstituted piperidine with pyridine and bis(phenol) donor groups: Its stereoselective coordination to titanium(IV) ion.
OKAMATSU TOHRU, IRIE RYO and KATSUKI TSUTOMU
Journal of Organometallic Chemistry, 692(1-3), 645-653 (2007).
- 23 Construction of robust ruthenium(salen)(CO) complexes and asymmetric aziridination with nitrene precursors in the form of azide compounds that bear easily removable N-sulfonyl groups.
KAWABATA HIROTOSHI, OMURA KAZUHUMI, UCHIDA TATSUYA and KATSUKI TSUTOMU
Chemistry--An Asian Journal, 2(2), 248-256 (2007).
- 24 Oxidative desymmetrization of *meso*-cyclic ethers (2): recognition of the core structure of substrates of the Mn(salen) catalyst.
SUEMATSU HIDEHIRO, TAMURA YUUSUKE, SHITAMA HIROAKI and KATSUKI TSUTOMU
Heterocycles, 71(12), 2587-2593(2007).
- 25 Synthesis of an Optically Active Al(salalen) Complex and Its Application to Catalytic Hydrophosphonylation of Aldehydes and Aldimines.
SAITO BUNNAI, EGAMI HIROMICHI and KATSUKI TSUTOMU
Journal of the American Chemical Society, 129(7), 1978-1986(2007).
- 26 Titanium-catalyzed asymmetric epoxidation of olefins with aqueous hydrogen peroxide: remarkable effect of phosphate buffer on epoxide yield.
SHIMADA YUYA, KONDO SHOICHI, OHARA YOSHIO, MATSUMOTO KAZUHIRO and KATSUKI TSUTOMU
Synlett, (15), 2445-2447 (2007).
- 27 Asymmetric sulfimidation with *cis*-b Ru(salalen)(CO)₂ complexes as catalyst.
FUJITA HIDEKAZU, UCHIDA TATSUYA, IRIE RYO and KATSUKI TSUTOMU
Chemistry Letters, 36(9), 1092-1093 (2007).
- 28 Design and Synthesis of New Chiral Tripodal Amine for Tetradentate Ligand and Asymmetric

Organocatalysis (キラルな三脚型アミンを基盤とする四座配位子の開発とその不斉有機塩基触媒作用)

理学府、博士課程、分子科学専攻

岡松 亨、(2007)

- 29 Study on Ti(salalen)-catalyzed Asymmetric Epoxidation Using Aqueous Hydrogen Peroxide as Oxidant (過酸化水素を酸化剤とするチタンサラレン錯体触媒を用いる不斉エポキシ化の研究)

理学府、博士課程、分子科学専攻

沢田 勇二、(2007)

- 30 1. Study on Oxidation Desymmetrization of *meso*-Cyclic Ethers: Enantiotopos-Selective C-H Oxidation with Manganese-Salen Complex as Catalyst (メソ環状エーテルの酸化的非対称化: マンガンサレン錯体を触媒とする C-H 結合のエナンチオ場選択的酸化反応の研究)
2. Study on *Cis*- Selective Asymmetric Cyclopropanation with Iridium-Salen Complex as Catalyst (イリジウムサレン錯体を触媒とするシス選択的不斉シクロプロパン化反応の研究)

理学府、修士課程、分子科学専攻

末松 英浩、(2007)

- 31 Study on Al(salalen)-catalyzed Asymmetric Sulfoxidation Using Aqueous Hydrogen Peroxide as Oxidant (アルミサラレン錯体を触媒とする過酸化水素を用いた不斉スルホ酸化反応の研究)

理学府、修士課程、分子科学専攻

山口 哲史、(2007)

*

- 32 Time-resolved infrared diode laser spectroscopy of the ν_1 (C-O stretch) band of the CoCO radical.

Seiki Ikeda, Toshihide Hikida, Takehiko Tanaka, and Keiichi Tanaka

J. Mol. Spectrosc. 247, 167-180 (2008).

- 33 High-resolution infrared and millimeter-wave spectroscopic studies of CoNO and FeNO.

(CoNO及びFeNOの高分解能赤外及びミリ波分光)

大学院理学府 分子科学専攻 博士論文

池田 誠規 (2007年度)

- 34 Spectroscopic Study of the Vinyl Radical in Millimeter-wave Region.
(ビニルラジカルのミリ波分光)
大学院理学府 分子科学専攻 博士論文
林 雅人 (2007年度)
- 35 Millimeter-wave Spectroscopy of the Tunneling-rotation Transitions of the D2CCD Radical.
-The Isotopic Effect of the Proton Tunneling of the Vinyl Radical-
(D2CCDラジカルのトンネル回転遷移のミリ波分光
-ビニルラジカルのプロトントンネリングの同位体効果-)
大学院理学府 分子科学専攻 修士論文
大槻 光彦 (2007年度)

工学研究院

エネルギー量子工学部門

- 1 Antiferromagnetism and Geometrical Frustration in Tetrahedral Lattice Hydroxyhalides
 $M_2(OH)_3X$
Masato HAGIWARA, Xu-Guang ZHENG, Takato TORIYI and Tatsuya KAWAE
Journal of Physics, Condens. Matter, Vol.19, pp.145281-145288, 2007
- 2 Possible Observation of Quadrupolar Kondo Effect in Pr-Based Dilute Quadrupolar Compounds
Tatsuya KAWAE, Yoshitaka NAKAIE, Yuji INAGAKI, Masako HIDAHA, Naoyuki TATEIWA and Tetsuo KITAI
Journal of Magnetism and Magnetic Materials, Vol. 310, pp. 235-237, 2007
- 3 The Magnetic Properties of $S=1/2$ Quasi-One-Dimensional-Quantum Spin System $DMACuCl_3$ in Magnetic Fields
Osamu WADA, Yasuo YOSHIDA, Yuji INAGAKI, Takayuki ASANO, Tatsuya KAWAE, Kazuyoshi TAKEDA and Yoshitami AJIRO
Journal of Magnetism and Magnetic Materials, Vol. 310, pp. E384-E386, 2007
- 4 Magnetic Properties of RCu_4Ag ($R = Gd-Er$) Single Crystals
Tetsuo KITAI, Shunya ABE, Hajime YOSHIDA, Tatsuya KAWAE, Yoshiyuki

KAWAZOE and Takejiro KANEKO

Journal of Magnetism and Magnetic Materials, Vol. 310, pp. E583-E585, 2007

- 5 Deuteration Effects on Specific Heat of an Alternating Chain System: F_5PNN
Yasuo YOSHIDA, Osamu WADA, Yoshitaka NAKAIE, Tatsuya KAWAE, Naoko SAKAI, Naoyuki KAWAME, Yutaka FUJII, Yuko HOSOKOSHI, Beatrice GGRENIER and Jean-Paul BOUCHER
Journal of Magnetism and Magnetic Materials, Vol. 310, pp. 1215-1217, 2007
- 6 Pressure Effects of Quadrupolar System $Pr_xLa_{1-x}Pb_3$ for $x=1$ and 0.97
Tatsuya KAWAE, Yoshitaka NAKAIE, Jun AKASHI, Yuji INAGAKI, Toshinobu SHIGEMATSU and Tetsuo KITAI
Journal of the Physical Society of Japan, Vol. 76, Suppl. A, pp.70-71 2007
- 7 Synthesis of Heavy Fermion Ce Compound Under High Pressure
Hidenori MIYAGAWA, Gendo. OOMI, Masashi OHASHI, Tatsuya KAWAE, Tomoaki KUDO and Takumi KATO
Journal of the Physical Society of Japan, Vol. 76, Suppl. A, pp. 71-72 2007
- 8 Heat Capacity and AC Magnetic Susceptibility Measurements of Magnetic Superconductor $HoNi_2B_2C$ under pressure
Masaki MITO, Taizo TANIMOTO, Tatsuya KAWAE, Kazuyoshi TAKEDA, Jae Hyuk CHOI and Sung- Ik LEE
Journal of the Physical Society of Japan, Vol. 76, Suppl. A, pp. 148-149, 2007
- 9 Synthesis and Characterization of Novel Ferrocene-Containing Pyridylamine Ligands and Their Ruthenium(II) Complexes: Electronic Communication Through Hydrogen-Bonded Amide Linkage
Takahiko KIJIMA, Daisuke NOGUCHI, Tomoko NAKAYAMA, Yuji INAGAKI, Yoshihito SHIOTA, Kazunari YOSHIKAWA, Kei OKUBO, and Shunichi FUKUZUMI
Inorganic Chemistry, in press
- 10 Submillimetre and millimetre wave ESR study of Manganese Spinel Compound $LiMn_2O_4$
Show TAKANO, Tomoyuki KAJI, Susumu OKUBO, Hitoshi OHTA, Makoto YOSHIDA, Syojiro KIMURA, R Dziembaj, M Molenda, C Rudowicz, Yuji INAGAKI and Takayuki ASANO

- 11 Observation of Direct Transitions in the Ferromagnetic and Antiferromagnetic Dimer System $(\text{CH}_3)_2\text{NH}_2\text{CuCl}_3$ by High-Field ESR
Makoto YOSHIDA, Yumiko KITANO, Yuji INAGAKI, Takahiro SAKURAI, Motoi KIMATA, Susumu OKUBO, Hitoshi OHTA, Keichi KOYAMA, Mitsuhiro MOTOKAWA, Takayuki ASANO, and Yoshitami AJIRO
Journal of the Physical Society of Japan, Vol.76, No.11, pp.113704-113707, 2007
- 12 2d-HAF 蟻酸 MnF_2Urea の磁場によるスピン対称性のクロスオーバーと BKT 転移
川野 裕子
- 13 $S=1/2$ 擬 1 次元量子スピン系 DMACuCl_3 の極限環境下における物性研究
和田 統

先導物質化学研究所

- 1 Gas-phase Lithium Cation Basicities of Acetophenones. A Linear Relationship between Lithium Cation and Proton Basicities
Hideaki Maeda, Maki Irie, Soe Than, Masaaki Mishima, Kiyoshi Kikukawa
Bull. Chem. Soc. Jpn. **2007**, *80*, 195-203
- 2 Experimental Gas-Phase Basicity Scale of Superbasic Phosphazenes
Ivari Kaljurand, Ilmar A. Koppel, Agnes Kütt, Eva-Ingrid Rõõm, Toomas Rodima, Ivar Koppel, Masaaki Mishima, Ivo Leito
J. Phys. Chem. A. **2007**, *111*(7), 1245-1250.
- 3 Amino Substituted Bisketenes: Generation, Structure, and Reactivity
Nanyan Fu, Annette D. Allen, Shinjiro Kobayashi, Thomas T. Tidwell, Sinisa Selvananthan Arumugam and Vladimir Popik, Masaaki Mishima
J. Org. Chem. **2007**, *72*, 1951-1956.
- 4 Observable Azacyclobutenone Ylides with Antiaromatic Character from 2-Diazoacetylazaaromatics
Nanyan Fu, Annette D. Allen, Shinjiro Kobayashi, Thomas T. Tidwell, Masaaki Mishima

J. Am. Chem. Soc. **2007**, 129, 6210-6215.

- 5 Experimental and Theoretical Studies of the Binding Interaction between Copper Cation and the Carbonyl Group. Substituent Effect on the Stability of (Acetophenone)₂Cu⁺ Complex in the Gas Phase,
Soe Than, Hideaki Maeda, Maki Irie, Kiyoshi Kikukawa, Masaaki Mishima
Int. J. Mass Spectrom. **2007**, 267, 205-214.
- 6 The intrinsic (gas phase) acidities of bridgehead alcohols. An experimental (FT-ICR) and computational study
José-Luis M. Abboud, Masaaki Mishima, Takaaki Sonoda, Ilmar A. Koppel
Int. J. Mass Spectrom. **2007**, 267, 302-307.
- 7 Brønsted Basicities of Diamines in the Gas Phase, Acetonitrile and Tetrahydrofuran
Eva-Ingrid Rõõm, Agnes Kütt, Ivari Kaljurand, Ivar Koppel, Ivo Leito, Ilmar A. Koppel
Masaaki Mishima, Kenta Goto, Yuji Miyahara
Chem. E. J. **2007**, 7631-7643.
- 8 Structural Effect on the Stability of (Pyridines)₂Cu⁺ Complexes in the Gas Phase.
The Nature of the Bond between Copper (I) Ion and Neutral Molecules
Soe Than, Hideaki Maeda, Shuhei Itoh, Maki Irie, Kiyoshi Kikukawa, Masaaki Mishima
J. Phys. Chem. A, **2007**, 111(27), 5988-5994.
- 9 Aminolysis of Y-Substituted Phenyl X-Substituted Cinnamates and Benzoates:
Effect of Modification of Nonleaving Group from Benzoyl to Cinnamoyl
Ik-Hwan Um, Youn-Min Park, Mizue Fujio, Masaaki Mishima, Yuho Tsuno
J. Org. Chem. **2007**, 72(13), 4816-4821.
- 10 Isomeric Solid Enols on Ring- and Amide- Carbonyls of Substituted 2-Carbanilido-1,3-Indandiones
Jinhua Song, Masaaki Mishima, Zvi Rappoport
Organic Lett. **2007**, 9, 4307-4310.