

構造熱科学研究センター業績リスト(2017)
Publications from
the Research Center for Structural Thermodynamics

[Articles are classified according to original paper (mark O), review article (R), book (B), translation (T) and miscellaneous (M). An asterisk attached to mark-letter indicates that the article has been published in Japanese.]

- O-1 Slow Magnetic Relaxation in a Mononuclear Ruthenium(III) Complex
S.-Q. Wu, Y. Miyazaki, M. Nakano, S.-Q. Su, Z.-S. Yao, H.-Z. Kou, and O. Sato
Chem. Eur. J. **23**(42), 10028–10033 (2017).
- O-2 Freezing-Point Depression of Benzene Confined in Mesoporous Silica SBA-15 on Doping with a Slight Amount of Toluene: Ideal Behavior in a Nanometer-Sized Space
Y. Ito, T. Miyaoka, N. Tomita, T. Yoshimi, T. Sugimoto, T. Takemura, A. Nagoe, and H. Fujimori
Chem. Lett. **46**(3), 296–298 (2017).
- O-3 Tuning of Open-shell Characters of a Terphenoquinone by Introducing a Benzodithiophene Unit
H. Tomita, D. Sakamaki, M. Noguchi, M. Nakano, and S. Seki
Chem. Lett. **46**(6), 805–807 (2017).
- O-4 The Synthesis of Three New Cu₅, Cu₈ and Cu₁₂ Clusters *via* the Use of a Semi-Flexible Aminotriazine-Based Bis-methylpyridine Ligand
C.-H. Chiang, Y.-W. Tzeng, C.-I. Yang, M. Nakano, W.-L. Wan, L.-L. Lai, and G.-H. Lee
Dalton Trans. **46**(4), 1237–1248 (2017).
- O-5 Synthesis and Characterization of Dibenzo[*a,f*]pentalene: Harmonization of the Antiaromatic and Singlet Biradical Character
A. Konishi, Y. Okada, M. Nakano, K. Sugisaki, K. Sato, T. Takui, and M. Yasuda
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- O-6 Isotopic Localization of the Partially Deuterated Methyl Group in Solid Methanol and Methyl Iodide
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- O-7 New Semiconducting Radical-Cation Salts of Chiral Bis(2-hydroxypropylthio)ethylenedithio TTF
J. R. Lopez, L. Martin, J. D. Wallis, H. Akutsu, J. Yamada, S. Nakatsuji, C. Wilson, J. Christensend, and S. J. Coles
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- O-8 Pressure Effect Studies on the High Spin $\rightleftharpoons$ Low Spin Transition Behavior Observed in [Fe(II)(bpp)₂](NCS)₂·2H₂O
A. Bhattacharjee, M. Sugimoto, Y. Nakazawa, and H. A. Goodwin
Curr. Smart Mater. **2**(1), 65–72 (2017).
- O-9 Enantiopure and Racemic Radical-Cation Salts of Bis(2'-hydroxypropylthio)(ethylenedithio)TTF with Polyiodide Anions
L. Martin, J. D. Wallis, M. Guziak, P. Maksymiw, F. Konalian-Kempf, A. Christian, S. Nakatsuji, J. Yamada, and H. Akutsu
Dalton Trans. **46**(13), 4225–4234 (2017).
- O-10 Molecular Conductors from Bis(ethylenedithio)tetrathiafulvalene with Tris(oxalato)rhodate
L. Martin, A. L. Morritt, J. R. Lopez, Y. Nakazawa, H. Akutsu, S. Imajo, Y. Ihara, B. Zhang, Y. Zhang, and Y. Guo
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- O-11 Ambient-Pressure Molecular Superconductor with a Superlattice Containing Layers of Tris(oxalato)rhodate Enantiomers and 18-Crown-6
L. Martin, A. L. Morritt, J. R. Lopez, H. Akutsu, Y. Nakazawa, S. Imajo, and Y. Ihara
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- O-12 Increase in the Magnetic Ordering Temperature (T_c) as a Function of the Applied Pressure for A₂Mn[Mn(CN)₆] (A = K, Rb, Cs) Prussian Blue Analogues
M. Sugimoto, S. Yamashita, H. Akutsu, Y. Nakazawa, J. G. DaSilva, C. M. Kareis, and J. S. Miller
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- O-13 Bulk Kosterlitz-Thouless Type Molecular Superconductor β'' -(BEDT-TTF)₂[(H₂O)(NH₄)₂Cr(C₂O₄)₃]·18-crown-6
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- O-14 Thermodynamic Investigation by Heat Capacity Measurements of κ -Type Dimer-Mott Organic Compounds with Chemical Pressure Tuning
Y. Matsumura, S. Imajo, S. Yamashita, H. Akutsu, and Y. Nakazawa
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- O-15 Anisotropic Field Dependence of the Superconducting Transition in the Magnetic Molecular Superconductor κ -(BETS)₂FeBr₄
S. Fukuoka, S. Yamashita, Y. Nakazawa, T. Yamamoto, and H. Fujiwara
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- O-16 Unusual Magnetic State with Dual Magnetic Excitations in the Single Crystal of $S = 1/2$ Kagome Lattice Antiferromagnet CaCu₃(OH)₆Cl₂·0.6H₂O
H. Yoshida, N. Noguchi, Y. Matsushita, Y. Ishii, Y. Ihara, M. Oda, H. Okabe, S. Yamashita, Y. Nakazawa, A. Takata, T. Kida, Y. Narumi, and M. Hagiwara
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- O-17 Dimensional Crossover and Its Interplay with In-Plane Anisotropy of Upper Critical Field in β -(BDA-TTP)₂SbF₆
S. Yasuzuka, H. Koga, Y. Yamamura, K. Saito, S. Uji, T. Terashima, H. Akutsu, and J. Yamada
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- O-18 Isotopic Effect in Thermal Expansion of Organic Superconductor κ -(D₄-BEDT-TTF)₂Cu[N(CN)₂]Br
A. V. Dolbin, M. V. Khlistuck, V. B. Eselson, V. G. Gavrilko, N. A. Vinnikov, R. M. Basnukaeva, V. A. Konstantinov, and Y. Nakazawa,
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- O-19 New DMIT-Based Organic Magnetic Conductors (PO-CONH-C₂H₄N(CH₃)₃)[M(dmit)₂]₂ ($M = \text{Ni, Pd}$) Including an Organic Cation Derived from a 2,2,5,5-Tetramethyl-3-pyrrolin-1-oxyl (PO) Radical
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- O-20 Fermi Surface in the Absence of a Fermi Liquid in the Kondo Insulator SmB₆
M. Hartstein, W. H. Toews, Y.-T. Hsu, B. Zeng, X. Chen, M. Ciomaga Hatnean, Q. R. Zhang, S. Nakamura, A. S. Padgett, G. Rodway-Gant, J. Berk, M. K. Kingston, G. H. Zhang, M. K. Chan, S. Yamashita, T. Sakakibara, Y. Takano, J.-H. Park, L. Balicas, N. Harrison, N. Shitsevalova, G. Balakrishnan, G. G. Lonzarich, R. W. Hill, M. Sutherland, and S. E. Sebastian
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- O-21 Thermodynamics of the Quantum Spin Liquid State of the Single-Component Dimer Mott System κ -H₃(Cat-EDT-TTF)₂
S. Yamashita, Y. Nakazawa, A. Ueda, and H. Mori
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- O-22 Anion Polarity-Induced Self-Doping in a Purely Organic Paramagnetic Conductor, α' - α' -(BEDT-TTF)₂(PO-CONH-*m*-C₆H₄SO₃)·H₂O where BEDT-TTF is Bis(ethylenedithio)tetrathiafulvalene and PO Is the Radical 2,2,5,5-Tetramethyl-3-pyrrolin-1-oxyl
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- O-23 Charge and Lattice Fluctuations in Molecule-Based Spin Liquids
T. Yamamoto, T. Fujimoto, T. Naito, Y. Nakazawa, M. Tamura, K. Yakushi, Y. Ikemoto, T. Moriwaki, and R. Kato,
Sci. Rep. **7**, 12930 (2017) (10 pages).
- O-24 AC Calorimetry System Using Commercially Available Microchip Device and its Application for Tiny Single Crystals of Molecule-Based Compounds
M. Murase, S. Yamashita, R. Yoshimoto, S. Imajo, Y. Nakazawa, K. Ueda, and R. Kato
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- O-25 Effects of Carboxylation of the Side Chains on the Order-Disorder Transition in Aqueous Solution of Schizophyllan, a Triple Helical Polysaccharide
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- O-26 Growth Kinetics of Polyelectrolyte Complexes Formed from Oppositely-Charged Homopolymers Studied by Time-Resolved Ultra-Small-Angle X-Ray Scattering
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- O-27 Complexation of a Globular Protein β -Lactoglobulin with an Anionic Surfactant in Aqueous Solution
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- O-28 Chain Stiffness of Cellulose Tris(phenylcarbamate) in Tricresyl Phosphate
X. Y. Jiang, T. Sato, and K. Terao
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- O-29 Competition between the Micellization and the Liquid–Liquid Phase Separation in Amphiphilic Block Copolymer Solutions
T. Sato and R. Takahashi
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- O-30 Small-Angle X-ray Scattering from the Concentrated Bulk Phase Separated from an Amphiphilic Block-Copolymer Solution
M. Kondo, R. Takahashi, X.-P. Qiu, F. M. Winnik, K. Terao, and T. Sato
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- B-1 Zero-Shear Viscosities of Polysaccharide Solutions
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- M-4* 若手熱測定研究者のための国際シンポジウム(ISST-YT)
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M-5* 磁場角度分解熱容量測定の開発と κ 型分子性超伝導のギャップ構造の異方性の検出
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