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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 Proton Order-Disorder Phenomena in a Hydrogen-Bonded Rhodium- η^5 -Semiquinone Complex: A Possible Dielectric Response Mechanism
M. Mitsumi, K. Ezaki, Y. Komatsu, K. Toriumi, T. Miyatou, M. Mizuno, N. Azuma, Y. Miyazaki, M. Nakano, Y. Kitagawa, T. Hanashima, R. Kiyonagi, T. Ohhara, and K. Nakasuji
Chem. Eur. J. **21**(27), 9682–9696 (2015).
- O-2 Structural Switching from Paramagnetic to Single-Molecule Magnet Behaviour of LnZn_2 Trinuclear Complexes
P. L. Then, C. Takehara, Y. Kataoka, M. Nakano, T. Yamamura, and T. Kajiware
Dalton Trans. **44**(41), 18038–18048 (2015).
- O-3 Slow Magnetic Relaxation of Light Lanthanide-Based Linear LnZn_2 Trinuclear Complexes
C. Takehara, P. L. Then, Y. Kataoka, M. Nakano, T. Yamamura, and T. Kajiware
Dalton Trans. **44**(41), 18276–18283 (2015).
- O-4 Synthesis, Molecular Structure, and Morphological Properties of Dendritic Tetra-2-thienylmethane
K. Matsumoto, S. Kugo, T. Suzuki, D. Takajo, A. Inaba, Y. Hirao, H. Kurata, and T. Kubo
Heterocycles (2015) in press.
- O-5 Calorimetric Measurements on Li_4C_{60} and Na_4C_{60}
A. Inaba, Y. Miyazaki, P. P. Michałowski, E. Gracia-Espino, B. Sundqvist, and T. Wågberg
J. Chem. Phys. **142**(16), 164706(1–6) (2015).
- O-6 Thermal Properties of $[\text{Cr}(\text{NH}_3)_6](\text{BF}_4)_3$ Studied by Adiabatic and Relaxation Calorimetry
N. Górka, R. Pełka, A. Inaba, E. Mikuli, and M. Mihalik
J. Chem. Thermodyn. **89**, 223–227 (2015).
- O-7 Third Derivative Thermodynamic Quantities of Aqueous Tetrahydrofuran at 25 °C
K. Yoshida, P. Westh, A. Inaba, M. Nakano, and Y. Koga
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- O-8 Pressure Modulation of Backbone Conformation and Intermolecular π -Figuration of Their Conjugated System
Y. Noguchi, A. Saeki, T. Fujiwara, S. Yamanaka, M. Kumano, T. Sakurai, N. Matsuyama, M. Nakano, N. Hirao, Y. Ohishi, and S. Seki
J. Phys. Chem. B **119**(24), 7219–7230 (2015).
- O-9 Enhancement of Proton Ordering in the Hexagonal Ice in Contact with Polyethylene Glycol Crystal
A. Nagoe, H. Kusukawa, and M. Oguni
J. Phys. Chem. C **119**(42), 23910–23916 (2015).

- O-10 Crystallization and Fusion Behaviors, Observed by Adiabatic Calorimetry, of Benzene Confined in Silica Mesopores with Uniform Diameters
A. Nagoe, M. Oguni, and H. Fujimori
J. Phys.: Condens. Matter **27**(10), 105101(1–9) (2015).
- O-11 Low-Temperature Heat Capacities of Confined Liquid Benzene, Implying the Behavior of Ordinary Bulk Liquids
A. Nagoe, M. Oguni, and H. Fujimori
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- O-12 Mechanocaloric Properties of Poly(dimethylsiloxane) and Ethylene-Propylene Rubbers
T. Matsuo, N. Azuma, Y. Toriyama, and T. Yoshioka
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- O-13 A Ferromagnetically Coupled Fe₄₂ Cyanide-Bridged Nanocage
S. Kang, H. Zheng, T. Liu, K. Hamachi, S. Kanegawa, K. Sugimoto, Y. Shiota, S. Hayami, M. Mito, T. Nakamura, M. Nakano, M. L. Baker, H. Nojiri, K. Yoshizawa, C. Duan, and O. Sato
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- O-14 Assembling an Alkyl Rotor to Access Abrupt and Reversible Crystalline Deformation of a Cobalt(II) Complex
S.-Q. Su, T. Kamachi, Z.-S. Yao, Y.-G. Huang, Y. Shiota, K. Yoshizawa, N. Azuma, Y. Miyazaki, M. Nakano, G. Maruta, S. Takeda, S. Kang, S. Kanegawa, and O. Sato
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- O-15 Low-Temperature Thermal Properties of the Aqueous Solutions of Simple Aminoalcohols: Finding of Peculiarities in 1-Amino-2-propanol Solutions
Y. Shen, A. Nagoe, M. Oguni, H. Kawaji, and H. Fujimori
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- O-16 Chirality in Charge-Transfer Salts of BEDT-TTF of Tris(oxalato)chromate(III)
L. Martin, H. Akutsu, P. N. Horton and M. B. Hursthouse
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- O-17 Radical-Cation Salts of BEDT-TTF with Lithium Tris(oxalato)metallate(III)
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- O-18 Chiral Radical-Cation Salts of BEDT-TTF Containing a Single Enantiomer of Tris(oxalato)aluminate(III) and -chromate(III)
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- O-19 Structures and Properties of New Ferrocene-Based Paramagnetic Anion Octamethylferrocenedisulfonate and Its TTF Salt
H. Akutsu, R. Hashimoto, J. Yamada, S. Nakatsuji, Y. Nakazawa, and S. S. Turner
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- O-20 Transitions in Pressure Collapsed Clathrate Hydrates
O. Andersson and Y. Nakazawa
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- O-21 Construction of Relaxation Calorimetry for 10^{1-2} Micro-gram Samples and Heat Capacity Measurements of Organic Complexes
S. Imajo, S. Fukuoka, S. Yamashita, and Y. Nakazawa
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- O-22 Cooling-Rate-Controlled Heat Capacity Measurements of Organic Superconductor (TMTSF)₂ClO₄
S. Morishita, R. Yoshimoto, S. Fukuoka, S. Yamashita, H. Akutsu, and Y. Nakazawa
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- O-23 Heat Capacity of Spin Liquid System of EtMe₃Sb[Pd(dmit)₂]₂
S. Yamashita, R. Yoshimoto, S. Fukuoka, Y. Nakazawa, and R. Kato
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- O-24 *exo*-Methylene-BEDT-TTF and Alkene-Functionalised BEDT-TTF Derivatives: Synthesis and Radical Cation Salts
M. Zecchini, J. R. Lopez, S. W. Allen, S. J. Coles, C. Wilson, H. Akutsu, L. Martin, and J. D. Wallis
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- O-25 Structures and Properties of Diradical Compounds Containing Disulfide and Nitroxide Groups
K. Fujikura, H. Akutsu, J. Yamada, S. Nakatsuji, and M. Satoh,
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- O-26 Radical-Cation Salt with Novel BEDT-TTF Packing Motif Containing Tris(oxalato)germanate(IV)
J. R. Lopez, H. Akutsu, and L. Martin
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- O-27 Quarternization of 3-Azido-1-Propyne Oligomers Obtained by Copper(I)-Catalyzed Azide-Alkyne Cycloaddition Polymerization
S. Nakano, A. Hashidzume, and T. Sato
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- O-28 Water-Induced Formation of Reverse Micelles from Diblock Copolymer of Styrene and *N*-Isopropylacrylamide in 1,2-Dichloroethane
T. Arai, A. Hashidzume, and T. Sato
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- O-29 Intermolecular Interactions and Self-Assembly in Aqueous Solution of a Mixture of Anionic–Neutral and Cationic–Neutral Block Copolymers
R. Takahashi, T. Sato, K. Terao, and S. Yusa
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- O-30 Colloidal Droplets of the Concentrated Phase in Aqueous Methanol Solutions of a Hydrophilically Modified Poly(dimethylsiloxane)
T. Okuhara and T. Sato
Polym. J. (2015) in press.
- R-1* 現代に生きる実験熱力学研究
中野元裕
生産と技術 **67**(2), 59–61 (2015).
- R-2* 細孔水へのヒドロキシルアミン添加効果：液－液相転移の発現とその組成・圧力依存性
名越篤史，小國正晴
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- R-3* 熱力学との対比による複雑系科学の展望
長野八久
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- R-4* 平和学習のためのフィールドワーク 一日雇い労働者の街，釜ヶ崎とその周辺を歩く
長野八久
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- R-5* 分子性超伝導体の外部磁場に対する精密角度分解熱測定
福岡脩平，中澤康浩
熱測定 **42**(1), 10–16 (2015).
- R-6* 物性研究における熱測定の役割
山下智史
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- B-1* 分子性物質の物理－物性物理の新潮流－ 第3章 スピン液体
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- M-2* 一次元ロジウム (I) -セミキノナト錯体の熱容量と相転移
宮崎裕司, 中野元裕
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- M-3* κ 型 BEDT-TTF 塩で反強磁性揺らぎとプロトンスピンの相互作用によって生じる極低温熱異常
吉元 諒, 山下智史, 坪 広樹, 中澤康浩
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