

# 化学熱学実験施設業績リスト (1979—1983) (Publications from the Chemical Thermodynamics Laboratory)

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

## — 1979 —

- O— 1    New Finding of a Stable Low-temperature Phase in Ferrocene Crystal.  
          K. Ogasahara, M. Sorai and H. Suga, *Chem. Phys. Lett.*, **68**, 457-461 (1979).
- O— 2    A simple Conduction-type Calorimeter.  
          H. Chihara, T. Atake and M. Ichihashi, *Netsu Sokutei*, **6**, 132-136 (1979).
- R\*— 1    Thermochemistry of Reaction Intermediates.  
          M. Sakiyama, *Kagaku (Chemistry)*, **34**, 492-495 (1979).
- R\*— 2    High-resolucional Heat Capacity Measurement by Adiabatic Method.  
          T. Matsuo and H. Suga, *Kotai Butsuri (Solid State Physics)*, **14**, 738-746 (1979).

## — 1980 —

- O— 1    Heat Capacities of a Disc-like Mesogen and Its Precursor Having a Structure of  $C_6(OCO \cdot n \cdot C_m H_{2m+1})_6$ .  
          M. Sorai, K. Tsuji, H. Suga and S. Seki, *Liquid Crystals*, ed. by S. Chandrasekhar, pp.41-51, Heyden, London (1980).
- O— 2    Studies on Disc-like Molecules. I. Heat Capacity of Benzene-hexa-*n*-hexanoate from 13 to 393 K.  
          M. Sorai, K. Tsuji, H. Suga and S. Seki, *Mol. Cryst. Liq. Cryst.*, **59**, 33-57 (1980).
- O— 3    Laser Raman Spectra of the Low-temperature Phase of Ferrocene.  
          M. Sorai, S. Murakawa, K. Ogasahara and H. Suga, *Chem. Phys. Lett.*, **76**, 510-514 (1980).
- O— 4    Thermochemical Studies on Double- and Triple-layered [2.2]Paracyclophanes. Estimation of Molecular Strain Energies.  
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- O— 5    Heat Capacity and Phase Transition of a Five-coordinated Antiferromagnet, Iodobis-(*N*, *N*-diethylthiocarbamato)iron(III) in the Temperature Range from 0.4 to 300 K.  
          M. Yoshikawa, M. Sorai, H. Suga and S. Seki, *J. Phys. Chem. Solids*, **41**, 1295-1302 (1980).
- O— 6    Calorimetric Study of Glassy State. XV. Thermodynamic Study of Pinacol Hexahydrate and Pinacol- $d_2$  Hexadeuterate.  
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- O— 7    Thermochemical Estimation of Destabilization Energies of 1, 2-, 1, 3- and 1, 4-Dicyanobenzenes due to Interactions between Substituents. Appendix: Dipole Moments in Solution of the Dicyanobenzenes.

- T. Toshima-Sato, M. Sakiyama and S. Seki, *Bull. Chem. Soc. Jpn.*, **53**, 2762-2767 (1980).
- O-8 An On-Line Automated Adiabatic Calorimeter in the 13-300 K. Heat Capacity of Cyclohexanol.  
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- O-10 Heat Capacity Anomalies due to Successive Phase Transitions in 1,1'-Biphenyl.  
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- O-11 Thermodynamic Properties of  $\text{Rb}_2\text{ZnCl}_4$  Associated with Three Phase Transitions.  
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- O\*-12 An Adiabatic Low-temperature Calorimeter with a Built-in Cryorefrigerator.  
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- R\*-3 Calorimetric Study of Non-crystalline Solids.  
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- R\*-5 Recent Progress in Calorimetry.  
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- M\*-2 Report on Faraday Discussion No.69, Phase Transitions in Molecular Solids.  
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- M\*-4 Present Status of Chemical Thermodynamics Laboratory, Osaka University.  
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- M\* - 7 Liquid Crystals: Discotic Mesophases and Reentrant Mesophases.  
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- O - 1 Thermodynamic Properties of Ferrocene Crystal.  
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- O - 3 New Finding of a Magnetically Ordered Phase in a Five-coordinated Iron( III ) Complex with Spin  $S = 3/2$ , Bromobis(*N,N*-diethyldithiocarbamate) Iron( III ).  
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- O - 5 Studies on Mesogenic Disc-like Molecules. II. Heat Capacity of Benzene-hexa-*n*-heptanoate from 13 to 393 K.  
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- R - 1 Phase Transitions in Some Two-dimensional Hydrogen-bonded Hydrate Crystals.  
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- R\* - 2 Thermodynamic Study of Materials under High Pressure.

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- M\* - 3 A Note on Temperature Regulation Techniques.  
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- O - 4 Enthalpy of Sublimation of Benzoic Acid and Dimerization in the Vapor Phase in the Temperature Range from 320 to 370 K.  
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