Events

9TH JAPANESE CALORIMETRY CONFERENCE, 1973

The 9th Japanese Calorimetry Conference was held in Osaka Kagaku Gijutsu Center, on November 14–16, 1973. The following lectures were read:

Heats of dilution of polymer solutions
R. FUJISHIRO
(Dept. of Chemistry, Faculty of Science, Osaka City Univ., Sumiyoshi-ku, Osaka)

Methods and instruments for studies in chemical thermodynamics at the Thermochemistry Laboratory
S. SUNNER
(Lund University, Sweden)

Mass spectral analysis of thermally desorbed gases from diamond surfaces
S. MATSUMOTO, Y. SATO and N. SETAKA
(National Institute for Researches in Inorganic Materials, Sakura-mura, Niihari-gun Ibaragi)

Thermoluminescence of precipitated calcium carbonates
S. ABE, K. ENDO and Y. UEMURA
(Dept. of Industrial Chemistry, Tokyo Univ. of Agriculture and technology, 2–24–16 Nakamachi, Koganeishi, Tokyo)

Thermal analysis of stilbite, with special reference to an exothermic reaction around 500°C
R. OTSUKA, *S. TSUTSUMI and T. SAKAMOTO
(Dept. of Mineral Industry, Sch. Sci. Eng'ng and *Inst. of Earth Sci., Sch. Education, Waseda Univ. Nishiokubo, Shinjuku-ku, Tokyo)

A thermal analysis for magnesium chloride hexahydrate under pressure
T. HOMA
(Kitami Institute of Technology, Koen-cho, Kitami-shi)

Thermal racemization of aquocobalt (III) complexes
M. OMOTE, E. KYUNO and R. TSUCHIYA
(Dept. of Chemistry, Faculty of Science, Kanazawa Univ. 1–1 Marunouchi Kanazawa, 920)

DTA studies on the thermal deaquation reactions of cis- and trans-$[Co(en)_2(NH_3)(OH_2)]Br_3.H_2O$ *in solid-phase (Supplement).*
C. SATO, M. OHSAWA and H. TANAKA
(Dept. of Chemistry, Faculty of Science, Hirosaki Univ. Hirosaki)

Consideration on thermal conductivity of solid under reaction by TDA method
S. SUGYAMA, M. HASATANI, H. MATSUDA and T. KAGAWA
(Dept. of Chem. Eng., Nagoya Univ., Nagoya)

Thermal behavior of melt spinning copper fiber
T. GOTO, H. TAKAI, T. ODA, Y. YUKI and M. NAGANO
(Dept. of Fiber and Polymer, Nagoya Institute of Technology, Gokiso, Showa-ku, Nagoya 466)

The heat capacities of ferroelectric NH_4HSO_4 *and* $RbHSO_4$
Y. HIGASHIGAKI and H. CHIHARA
(Faculty of Science, Osaka Univ., Toyonaka, Osaka 560)

Heat capacity of $NH_4H(ClCH_2COO)_2$ *and* $ND_4D(ClCH_2COO)_2$ *and their ferroelectric phase transition*
A. INABA and H. CHIHARA
(Faculty of Science, Osaka Univ. Toyonaka, Osaka, 560)

A thermal study of an irreversible phase transition from the metastable to stable modification of potassium ferrocyanide trihydrate
M. OGUNI, T. MATSUO and H. SUGA
(Dept. of Chemistry, Faculty of Science, Osaka Univ., Toyonaka, Osaka 560)

An investigation of the phase transition in $SnCl_2 \cdot 2\,H_2O$ *crystal by high resolution heat capacity measurement*
M. TATSUMI, T. MATSUO and H. SUGA
(Dept. of Chemistry, Faculty of Science, Osaka Univ., Toyonaka, Osaka 560)

A newly designed laser flash calorimeter for precise heat capacity measurement (at 80 – 700 K)
Y. TAKAHASHI, H. YOKOKAWA, M. KAMIMOTO
(Dept. of Nuclear Engineering, Univ. of Tokyo, 7 – 3 – 1, Hongo, Bunkyo-ku. Tokyo)

Heat capacity measurement of UP by laser flash method
H. YOKOKAWA, Y. TAKAHASHI and T. MUKAIBO
(Dept. of Nuclear Engineering, Faculty of Engineering, Univ. of Tokyo, 7 – 3 – 1 Hongo, Bunkyo-ku. Tokyo)

Heat capacity of crystalline, nematic and isotropic liquid phases of n-p-ethoxybenzylidene-p'-butylaniline
T. NAKAMURA, M. SORAI and S. SEKI
(Dept. of Chemistry, Faculty of Science, Osaka Univ., Toyonaka, Osaka 560)

Relaxation phenomena around glass transition region in heavy ice
O. HAIDA, H. SUGA and S. SEKI
(Dept. of Chemistry, Faculty of Science, Osaka Univ., Toyonaka, Osaka 560)

Measurement of temperature dispersion of dielectric loss by means of DTA
H. MATSUURA and R. KANEKO
(Dept. of Industrial Chemistry, Tokyo Univ. of Agriculture and Technology, 2 – 24 – 16 Nakamachi Koganei, Tokyo)

Measurement of temperature dispersion of dielectric loss by means of DTA
Y. KOMATSU and R. KANEKO
(Dept. of Industrial Chemistry, Tokyo Univ. of Agriculture and Technology, 2 – 24 – 16 Nakamachi Koganei, Tokyo)

A study of thermally stimulated depolarization in crystalline 1,4-cyclohexanedione in relation to the phase transition
C. KITAZAWA and A. AIHARA
(Dept. of Materials Science, Denki-Tsushin Univ. Chofu, Tokyo)

Thermal properties of the mixed D and L of poly-γ-benzyl-glutamate
T. UJIIE, K. INOUE, Y. BABA and A. KAGEMOTO
(Osaka Institute of Technology, Dept. of General Education, Omiya, Asahi-ku. Osaka 535)

The effect on the metal ion of the helix-coil transition of Poly A
S. TANAKA, Y. BABA and A. KAGEMOTO
(Osaka Institute of Technology, Dept. of General Education Omiya, Asahi-ku. Isaka 535)

Thermal behavior of isopropenyl-s-triazines
T. OOUCHI and Y. YUKI
(Dept. of Fiber and Polymer, Nagoya Institute of Technology, Gokisho, Showa-ku. Nagoya, 466)

Heat-exchange type of calorimetry and the application to chemical analysis
M. NAKANISHI
(Dept. of Chemistry, Ochanomizu Univ., Bunkyo-ku. Tokyo)

Study of liquid phase equilibria by conduction calorimetry
H. TACHOIRE
(Laboratoire de Thermochimie, Université de Provence, France)

Studies on the phase transition of long-chain vinyl compounds by differential thermal analysis
Y. SHIBASAKI, H. NAKAHARA and K. FUKUDA
(Dept. of Chemistry, Faculty of Science and Engineering, Saitama Univ., 255 Shimo-Okubo, Urawa)

Thermal analysis on isothermal crystallization kinetics of Nylon-6
K. KAMIDE and A. IMANAKA
(Textile Research Laboratories, Asahi Chemical Industry Co., Ltd. 11—7 Hacchonawate, Takatsuki-City Osaka)

Thickening of crystal during heating at high rate
K. SAKURAI, K. MIYASAKA and K. ISHIKAWA
(Tokyo Institute of Technology, Laboratory of Textile Physics., Ookayama, Meguro-ku. Tokyo)

Thermal analysis of drawn polyester (1)
E. ITO[1] and T. HATAKEYAMA[2]
([1]Tokyo Metropolitan Univ., Fukasawa, Setagaly, Tokyo, [2]Research Institute for Polymers and Textiles Sawatari, Kanagawa, Yokohama)

Thermomechanical analysis (TMA) of the thermal shrinkage of cold-stretched polycarbonate, near its TG
T. KATO and H. KAMBE
(Institute of Space and Aeronautical Science, Tokyo Univ. Komaba 4—6—1, Meguro-ku Tokyo)

Design of flash point tester
T. OKINO[1] and K. ISHII[2]
([1]Shimazu Seisakusho Ltd., Scientific & Industrial Instrument Division, Analytical Instrument Plant, Sanjo Works, Nishioji Sanjo, Nakagyo-ku. Kyoto, [2]Takatsuki Research Center, Toyobo Co. Ltd., Takatsuki City, Osaka)

Design of micro-thermobalance for the temperature range of 1500°C
M. MARUTA
(Shimazu Seisakusho Ltd., Scientific & Industrial Instrument Division, Analytical Instrument Plant, Sanjo Works, Nishioji Sanjo, Nakagyo-ku, Kyoto)

Design of high sensitivity thermobalance
K. ITO
(Shimazu Seisakusho Ltd., Scientific & Industrial Instrument Division, Analytical Instrument Plant, Sanjo Works, Nishioji Sanjo, Nakagyo-ku, Kyoto)

Evolved gas analysis by TG-MS
A. FUJISAWA, M. MARUTA and K. YAMADA
(Shimazu Seisakusho Ltd., Sanjo, Works, 1, Nishinokyo Kuwabara-cho, Nakagyo-ku, Kyoto)

Evolved gas analysis by flame ionization detector (FID)
K. YAMADA, T. SAITO, S. OHURA and A. TSUYAMA
(Shimazu Seisakusho Ltd., Scientific & Industrial Instrument Div. Analytical Instrument Plant, Sanjo Works, Nishioji Sanjo Nakagyo-ku, Kyoto)

Specific heat measurement by image furnace
N. YOSHIDA, M. YAMAKAWA and S. NAGASAKI
(AGNE Research Center of Technology, Kitamura Bldg., 5—1—25, Minamiaoyama, Minato-ku, Tokyo)

Drop calorimeter for continuous measurement
M. ICHIHASHI, A. KISHI and A. MAEZONO
(Shinku Riko Co. Ltd., 300 Hakusan-cho, Midori-ku, Yokohama City)

A newer adiabatic calorimeter system
A. MAESONO, M. ISHIHASHI and R. KATO
(Shinku Riko Co., Ltd., 300, Hakusan-cho, Mirodi-ku, Yokohama)

The heat capacity of tetramethylsilane; a new crystalline modification
M. HARADA, T. ATAKE and H. CHIHARA
(Faculty of Science, Osaka Univ., Toyonaka, Osaka, 560)

The heat capacity, vapor pressure and related thermodynamic properties of tetramethylstannane
T. ATAKE and H. CHIHARA J
(Faculty of Science, Osaka Univ., Toyonaka, Osaka 560)

Heat capacities and phase transitions KSCN *and* NH_4SCN *crystals*
Y. KINSHO, M. SAKIYAMA and S. SEKI
(Faculty of Science, Osaka Univ., Toyonaka, Osaka 560)

Heat capacity and relaxation phenomena of isopropylbenzene
K. KISHIMOTO, H. SUGA and S. SEKI
(Dept. of Chemistry, Faculty of Science, Osaka Univ., Toyonaka, Osaka 560)

Study of helix-coil transition in poly-ε-carbo-benzoxy-L-lysine by heat capacity measurement
K. NAKAMOTO, H. SUGA, S. SEKI, T. NORISUYE, A. TERAMOTO and H. FUJITA
(Dept. of Chemistry, Faculty of Science, Osaka Univ., Toyonaka, Osaka 560)

The heats of helix-coil transition of poly-γ-methyl-L-glutamate solution by means of the heats of solution
H. KATAYAMA, Y. BABA and A. KAGEMOTO
(Osaka Institute of Technology, Dept. of General Education, Omiya, Asahi-ku, Osaka 535)

Heat-leakage type thermal detector with short time constants
Y. TERAMOTO, N. NAGASAKA, S. HAGIWARA
(Daini Seikosha Co. Ltd., Tokyo Riko Co. Ltd.)

The development of the heat-leakage scanning calorimeter
Y. TERAMOTO, N. NAGASAKA and S. HAGIWARA
(Daini Seikosha Co. Ltd., Tokyo Riko Co. Ltd.)

Design of an analogue computer for calculating the hypothetical adiabatic change of slow reaction by on-line system
K. TAKAHASHI
(Laboratory of Biophysical Chemistry, College of Agriculture, Univ. of Osaka Prefecture, Sakai Osaka)

The automatization of water-flow type gas calorimeter
M. SASAKI*, K. HAISHIMA*, L. FUJIWARA** and M. SHIGENO***
(* National Research Institute for Pollution and Resources, 188 Kotobuki-cho, Kawaguchi, Saitama Pref; ** The Fuel Society of Japan, 6—5—4 Sotokanda Chiyoda-ku, Tokyo; *** Chino Works Ltd., 1—22—8 Nishiikebukuro Toshima-ku, Tokyo)

Temperature distribution in the sample in an adiabaric scanning calorimeter
K. NAITO, H. INABA and M. ISHIDA
(Dept. of Nuclear Engineering, Faculty of Engineering, Nagoya Univ., Furo-cho, Chikusa-ku, Nagoya)

Measurements of thermal diffusivity of glasses by periodic heat-source
M. HATTORI and T. FUKUMOTO
(Faculty of Engineering, Hiroshima Univ., Sendamachi-3, Hiroshima)

Investigation of thermomechanical analysis in regard to the measurement of thermomechanica properties of polymers
K. TAKAHASHI
(Research Dept. II, Rigaku Denki Co. Ltd., 3—9—12, Matsubara-cho, Akishima-shi, Tokyo 196)

Degree of swelling measurement with a thermomechanical analyzer
K. YAMADA, M. MARUTA, Y. KUNIMATSU
(Shimazu Seisakusho Ltd., Scientific & Industrial Instrument Div., Analytical Instrument Plant, Sanjo Works, Nishioji Sanjo, Nakagyo-ku, Kyoto)

Improvement of thermomechanical analyzer and its application
I. OJIMA
(Research Dept. II, Rigaku Denki Co. Ltd., 3—9—12, Matsubara-cho, Akishima-shi, Tokyo 196)

Standard reference materials for torsional braid analysis
Y. TAKAHASHI and T. OZAWA
(Electrotechnical Laboratory, Tanashi, Tokyo)

Temperature standardization of thermogravimetry by Curie points of ferromagnetic alloys
R. YOKOTA and H. KAMBE
(4—6—1, Komaba Meguro-ku, Tokyo, Institute of Space and Aeronautical Science, Univ. of Tokyo)

On use of WO_3 *for sensitivity check of DTA*
S. OZAKI
(Government Industrial Research Institute of Nagoya, 1—1 Hiratemachi, Kita-ku, Nagoya)

Recent developments in dynamic thermal analysis
J. CHIU
(Du Pont., USA)

Effects of atmosphere on thermal analysis
Y. FURUYA
(Research Dept. II, Rigaku Denki Co. Ltd., 3—9—10, Matsubara-cho, Akishima-shi, Tokyo 196)

Kinetic analysis of the thermal decompositions by rapid heating thermal balance
R. KATO, Y. MURAKAMI and A. MAESONO
(Shinku Riko Co. Ltd., 300, Hakusan-cho, Midori-ku, Yokohama City)

The effect of heating rates on the kinetic analysis of thermoanalytical data
T. OZAWA
(Electrotechnical Laboratory, Tanashi, Tokyo)

Enthalpy of combustion of optically active amino acids
M. SAKIYAMA and S. SEKI
(Faculty of Science, Osaka Univ., Toyonaka 560)

Heat of combustion of the cellulose treated with flame retardants
T. OKINO and K. ITO
(Shimazu Seisakusho Ltd., Scientific & Industrial Instrument Div., Analytical Instrument Plant, Sanjo Works, Nishioji Sanjo Nakagyo-ku, Kyoto)

Enthalpies of vaporization of organic compounds at 25.0°C
Y. SAITO and K. KUSANO
(Faculty of Engineering, Miyazaki Univ.)

Calorimetry of starch-water system — Thermochemical properties during swelling process of starch granules
H. FUKADA and K. TAKAHASHI
(Laboratory of Biophysical Chemistry, College of Agriculture, Univ. of Osaka Pref. Sakai, Osaka)

Heats of dilution of o-terphenyl solutions in benzene II
T. KIMURA and S. TAKAGI
(Dept., of Chemistry, Faculty of Science and Technology, Kinki Univ., Kowakae 321, Higashi-Osaka)

Enthalpies of transfer of 1-methyl-2-pyrrolidinone from water to aqueous alcohols
F. KIMURA, S. MURAKAMI and R. FUJISHIRO
(Dept. of Chemistry, Faculty of Science, Osaka City Univ., Osaka)

Measurement of the vapor pressure of acetylacetone-organic solvents mixtures (I)
M. INOUE and N. SUZUKI
(Dept. of Chemistry, Faculty of Science, Tohoku Univ., Sendak)

New development of an apparatus for thermal conductivity measurement by hot wire method
K. HAYASHI, M. FUKUI and I. UEI
(Dept. of Chemistry, Junior College of Kyoto Technical Univ., Matsugasaki, Sakyo-ku, Kyoto 606)

Comments on measurement of thermophysical properties by laser flash method at 1500—2200°C
A. KISHI and A. MAEZONO
(Shinku Riko Co. Ltd., 300, Hakusan-cho, Midori-ku, Yokohama City)

Discussion on the problems of the thermal diffusivity measurement by laser flash method
M. KAMIMOTO, Y. TAKAHASHI and T. MUKAIBO
(Dept. of Nuclear Engineering, Faculty of Engineering, Univ. of Tokyo, 7—3—1 Hongo Bunkyo-ku, Tokyo)

Effective thermal conductivity of powder bed-measurement at high temperature by hot wire method
S. KOIKE, K. ITO, M. HASATANI and S. SUGIYAMA
(Dept. of Chem. Eng., Nagoya Univ., Nagoya)

Enthalpic study of the reactivity of olefines with boron trifluoride
L. ELEGANT and M. AZZARO
(Laboratory of Physical Organic Chemistry, Nice Univ., 06034 Nice Cedex, France)