

Events

11th JAPANESE CALORIMETRY CONFERENCE, FUKUOKA-SHI, JAPAN

November 19–21, 1975

THE FOLLOWING LECTURES WERE PRESENTED:

Measurements of thermal diffusivity of transparent electrolytic solutions with Wave-front shearing Interferometry

O. ODAWARA, K. KAWAMURA and I. OKADA*

(Research Lab. for Nuclear Reactors, Tokyo Institute of Technology)

*(Dept. of Electrochemistry, Tokyo Institute of Technology)

Pulse heating flat plate method measuring thermal diffusivity of Melts

T. ASAHINA and M. KOSAKA

(Government Industrial Research Institute, Nagoya)

Thermal diffusivity measurement of liquid by Laser flash method

A. MAESONO, I. WATANABE

(Shinku-Riko Co., Ltd., 300, Hakusan-cho, Midori-ku, Yokohama 226) and M. ISHIBASHI

(Mitsubishi Heavy Industries, Ltd., Takasago Technical Institute)

Measurement of thermal conductivity for anisotropic material

Y. ARAKAWA and S. MATSUMOTO

(Showa Denko K. K., Central Research Lab., No. 24–60 2-chome Tamagawa, Ohta-ku Tokyo)

New energy technology and science of heat

T. OZAWA

(Electrotechnical Lab., Tanashi, Tokyo)

Differential thermal gas analysis

M. KATO

(Dept. of Ceramics, Tokyo Institute of Technology, Ookayama, Meguro-ku Tokyo)

Studies on one cell method of high pressure DTA apparatus

K. MAKINO, S. YOKOYAMA and S. UEDA

(Dept. of Applied Chem., Faculty of Eng. Hokkaido Univ., Sapporo)

A new high pressure differential scanning calorimeter

K. TAKAMIZAWA, T. TAKEMURA, T. OYAMA

(Kyushu Univ., Faculty of Eng., Dept. of Applied Science, Fukuoka, Higashi-Ku, Hakozaki), H. UCHIDA, K. TOSHIMA and N. MIYAMOTO (Rigaku Denki Co., Ltd., Akishima-Shi, Tokyo)

A new type of heat leakage scanning calorimeter

Y. TERAMOTO and S. HAGIWARA

(Daini Seikosha Co., Ltd., Tokyo Riko Co., Ltd.)

The development of the low temperature heat-leaking scanning calorimeter

M. YASUTAKE and Y. TERAMOTO
(Daini Seikosha Co., Ltd)

Reliability of calorimetry by means of an apparatus with thermoelement for thermal analytic microscopy

K. KUNIHISA and S. HAGIWARA
(National Chemical Lab. for Industry, Honmachi, Shibuya-ku, Tokyo) (Tokyo Riko Company Kitamachi, Hoya-Shi, Tokyo)

Investigation of pushrod-type dilatometer

I. OJIMA, K. TOJIMA and H. UCHIDA
(Rigaku Corporation, Segawa Bldg., 2-8 Kanda Surugadai, Chiyoda-ku, Tokyo)

Application of rebound type thermomechanical analysis apparatus

M. MOMOTA and H. UCHIDA
(Rigaku Corporation, Segawa Bldg., 2-8 Kanda Surugadai, Chiyoda-ku, Tokyo)

Application of thermomechanical analysis

M. MARUTA and K. ITO
(Shimazu Seisakusho Ltd., 1, Nishinokyo Kuwabara-cho, Nakagyo-ku, Kyoto 604)

Automatic biscoelastometer with a data processor and its application

T. KOYAMA, H. UCHIDA, C. YAMAZAKI and K. MURAYAMA
(Rigaku Corporation, Segawa Bldg., 2-8 Kanda Surugadai, Chiyoda-ku, Tokyo) (Toray Industries, Inc., 3-chome, Sonoyama-cho, Otsu-shi, Shiga-Ken)

Thermo-analytical internal friction apparatus

R. KATO and K. TAKAOKA
(Shinku Riko Co., Ltd., 300 Hakusan-cho, Midori-ku, Yokohama)

Hypothetical adiabatic method for the heat measurement with the twin high temperature conduction calorimeter

A. SUZUKI and M. OSHIYAMA
(National Chemical Lab. for Industry (Tokyo Kogyo Shikensho), 1-1-5, Honmachi, Shibuya-ku, Tokyo)

Investigations of apparatus for measuring target temperature in a solar furnace

H. ARASHI and T. SAKURAI
(Research Institute for Scientific Measurements, Tohoku Univ., 19-1, Sanjyo-machi, Sendai)

Some technical considerations on a quantum thermometer

K. AMAYA
(National Chemical Lab. for Industry)

Correction by analog computation for the increased volume of solution in the heat-exchange type of titration calorimetry

S. FUJEDA and M. NAKANISHI (Dept. of Chem., Ochanomizu Univ., Bunkyo-ku, Tokyo 112)

The thermal behavior of Hb and Mb by pH change

R. SHIRAKI, S. MURAKAMI and R. FUJISHIRO
(Dept. of Chem. Faculty of Science, Osaka City Univ., Sugimoto-cho, Sumiyoshi-ku, Osaka)

Heat of solution of benzene + o-terphenyl system

T. KIMURA, Y. MINAMIHATA and S. TAKAGI
(Dept. of Chem. Faculty of Science and Technology, Kinki Univ., Kowakae Higashi-Osaka)

Enthalpies of solution of palmitic acid and its derivatives in several solvents

K. KUSANO, J. JINNOUCHI and K. ABE

(Faculty of Eng., Miyazaki Univ., Nichi-maruyama-cho, Miyazaki-shi)

Microcalorimetric study of Tetrahymena Pyriformis cultures

T. NAGAI

(Shionogi Research Lab., Shionogi & Co. Ltd., Fukushima-ku, Osaka), H. SUGA and S. SEKI (Dept. of Chem., Faculty of Science, Osaka Univ., Toyonaka, Osaka)

The heat of dilution of polymer solution

K. FUJIMOTO, Y. BABA and A. KAGEMOTO

(Osaka Institute of Technology, Omoya Asahi-ku, Osaka, 535)

The heat of mixing of DNA — acridine organe system

K. SAKAGAMI, Y. BABA and A. KAGEMOTO

(Osaka Institute of Technology, Omiya Asahi-ku, Osaka 535)

The heat of mixing of poly G and poly C

K. FUJIOKA, Y. BABA and A. KAGEMOTO

(Osaka Institute of Technology, Omiya Asahi-ku, Osaka 535)

A few comment on heat interaction parameter

M. NAITO, Y. BABA and A. KAGEMOTO

(Osaka Institute of Technology, Omiya Asahi-ku, Osaka 535)

Thermodynamic study of the interaction of Mn⁺⁺ ion with human serum albumin

M. SHISHIDO, A. CHIBA and T. OGAWA

(Yokohama National Univ., Ohka, Minami-ku, Yokohama-shi)

Cold trap chromatography of thermal degradation gas

A. NAKAGAMI and K. EHARA

(Dept. of Polymer Technology, Tokyo Institute of Technology, Ookayama Meguro-ku, Tokyo)

Analysis of high polymer by simultaneous DTA-GC technique

S. OURA and K. YAMADA

(Shimazu Seisakusho Ltd., 1, Nishinokyo Kuwabara-cho, Nakagyo-ku, Kyoto 604)

Interface for TG-MS

H. ISHIMURA and K. ISA

(Faculty of Education, Fukui Univ., 3-9-1, Bunkyo, Fukui)

A newly designed-spontaneous ignition tester

T. KOTOYORI

(Research Institute of Industrial Safety, 5-35-1, Shiba, Minato-ku, Tokyo 108), M. MARUTA and Y. KUNIMATSU (Shimazu Seisaku-sho Ltd., 1, Nishinokyo Kuwabara-cho, Nakagyo-ku, Kyoto 604)

Separation of starch and glucose or sucrose by thermofractography

K. TAKAHASHI, H. UCHIDA, M. SUZUKI and S. TAKETANI

(Rigaku Corporation, Segawa Bldg., 2-8, Kanda Surugadai, Chiyoda-ku, Tokyo) (Faculty of Pharmaceutica Ichigaya, Shinjuku-ku, Tokyo)

High-temperature thermochemistry of inorganic materials

O. J. KLEPPA

(The James Franck Institute and Departments of Chemistry and Geophysical Sciences, The Univ. of Chicago, Illinois 60637, U. S. A.)

The thermodynamic properties of aqueous electrolyte solutions

J. E. DESNOYERS

(Dept. of Chemistry, Univ. of Sherbrooke, Sherbrooke, Quebec, Canada)

Study of the LPG clathrate compounds using the low-temperature DTA

K. TABUCHI

(Ishikawajima-Harima Heavy Industry Co. Ltd., Research Institute, Chemical Equipment Dept., 1 Shin-Nakahara, Isogo-ku, Yokohama)

Thermal studies on the phase transitions of p - n-octadecyloxy benzoic acid

M. IKEDA

(Research Laboratories, Tokyo Fuji Photo Film Co. Ltd., Asaka, Saitama 351) and T. HATAKEYAMA (Research Institute of Polymers and Textiles, Yokohama)

Differential scanning calorimetric studies on phase transition of glucose and cellulose oligo-saccharides

T. HATAKEYAMA

(Research Institute for Polymers and Textiles, Sawatari, Kanagawa-ku, Yokohama) and H. HATAKEYAMA (Industrial Product Research Institute, Shimomaruko, Ota-ku, Tokyo)

Calorimetry of the nonelectrolyte solutions

S. MURAKAMI

(Dept. of Chem. Faculty of Science, Osaka City Univ., Sumiyoshi-ku, Osaka 558)

Measurement of heat capacity of aqueous di-carboxylic acid solutions

T. NOGUCHI, F. KAWAIZUMI and U. MIYAHARA

(Dept. of Chemical Eng., Faculty of Eng., Nagoya Univ., Chikusa-ku, Nagoya-Shi)

The excess enthalpies of the mixtures of aromatic hydrocarbons and cyclohexanone

T. TAMURA, S. MURAKAMI and R. FUJISHIRO (Dept. of Chem., Faculty of Science, Osaka City Univ., Sumiyoshi-ku, Osaka)

Enthalpy of dilution of Et_4NCl in the aqueous ethanol solution

Y. YAMAMOTO, S. MURAKAMI and R. FUJISHIRO

(Dept. of Chem. Faculty of Science, Osaka City Univ., Sugimoto-cho, Sumiyoshi-ku, Osaka)

Excess enthalpies of glycols and water

Y. MATSUMOTO, H. TOUHARA, K. NAKANISHI and N. WATANABE

(Dept. of Industrial Chem., Kyoto Univ., Kyoto 606)

Entropy change for the λ -type transition in nonstoichiometric U_4O_{8-y}

H. INABA, T. MATSUI and K. NAIRO

(Dept. of Nuclear Eng., Faculty of Eng., Nagoya Univ., Furo-cho, Chikusa-ku, Nagoya)

Enthalpies of mixing in the liquid mixtures of zinc fluoride with the fluorides of lithium, sodium and potassium

M. WAKIHARA and O. J. KLEPPA

(Tokyo Institute of Technology, Dept. of Chem. and Chemical Eng.) and (The Univ. of Chicago, Dept. of Chem.)

Heat capacity of metallic gallium

H. KADOKURA, Y. TAKAHASHI and T. MUKAIBO

(Dept. of Nuclear Eng., Univ. of Tokyo, Hongo, Bunkyo-ku, Tokyo)

Thermodynamic properties of liquid $Au + Te$ mixture

T. ISHIDA, T. MAEKAWA and T. YOKOKAWA

(Dept. of Chem., Faculty of Science, Hokkaido Univ., Sapporo 060)

Thermal decomposition of hydromagnesite

M. AKAO and S. IWAI

(Research Lab. of Eng. Materials, Tokyo Institute of Technology, 2-12-1 Ookayama, Meguro-ku, Tokyo 152)

Thermal decomposition of oxalates of holmium and erbium

Y. SAITO, K. YOKOTA and N. MIYASATO

(Dept. of Metallurgy, Mining College, Akita Univ., 1-1 Tegata Gakuen-cho, Akita 010)

Thermal stability of $Mg_3(PO_4)_2 \cdot 22H_2O$

T. UMEGAKI, M. CHIKAZAWA

(Tokyo Metropolitan Univ., Fukazawa 2-1-1, Setagaya-ku, Tokyo)

DSC study on the reaction of triuranium octoxide with hexachloropropene

K. ITO and T. KANNO

(Research Institute of Mineral Dressing and Metallurgy, Tohoku Univ., 1-1, Katahira 2-chome, Sendai, 980)

The thermal cis-to-trans isomerization of $[CrCl_2tn_2] Cl \cdot 0.5H_2O$ in the solid phase

T. YOSHIKUNI, A. UEHARA, E. KYUNO and R. TSUCHIYA

(Faculty of Science, Kanazawa Univ., Kanazawa 920)

Temperature of conductivity transition and Mössbauer spectra of Fe_xO crystal

H. HARADA, N. KINOSHITA, M. KAWAKAMI and S. KATO

(Dept. of Electronics, Faculty of Ent., Tottori Univ., Koyama, Tottori)

Determination of stability range of the $V_2O_4-V_2O_5$ system intermediates by means of stabilized zirconia solid electrolyte EGA method

M. TANIGUCHI, H. ENDO and A. YAJIMA

(Dept. of Chem., and Chemical Eng., Faculty of Eng., Tokyo Institute of Technology, Ookayama, Meguro-ku Tokyo)

Thermal analysis of polymers under pressure and stress

H. KANETSUNA

(Research Institute for Polymers and Textiles, Sawatari 4, Kanagawa-ku, Yokohama 221)

Muscular contraction and measurement of heat liberation

H. SHIMIZU

(Dept. of Biology, Faculty of Science, Kyushu Univ., Fukuoka 812)

Influence of interaction between filler and polymer matrix on thermal conductivity of polymer composite

T. TANAKA and K. SHIBAYAMA

(Central Research Lab., Mitsubishi Electric Corporation, Amagasaki, Hyogo)

Thermal analysis of the annealing mechanism of Nylon 6

K. KAMIDE, A. IMANAKA and HIGASHINAKAGAWA

(Textile Research Lab., Asahi Chemical Industry Co. Ltd., 11-7 Hacchonawate, Takatsuki, Osaka)

Cure behavior of grass-like polysiloxane by means of TBA

K. MURAYAMA, C. YAMAZAKI, H. UCHIDA and T. KOYAMA

(Toray Industries Inc. 3-chome, Sonoyama-cho, Otsu-shi, Shiga-ken) (Rigaku Corporation, Segawa Bld., 2-8 Kanda Surugadai Chiyoda-ku, Tokyo)

Thermophotometric study of crystallization of glasses

M. HATTORI, S. SAKATA and F. MATSUDA

(Dept. of Applied Chem., Faculty of Eng., Hiroshima Univ., Senda-machi, Hiroshima 730)

Influence of metal ions on helix—coil transition of DNA

S. NOJIMA, Y. BABA and A. KAGEMOTO

(Osaka Institute of Technology, Omiya Asahi-ku, Osaka 535)

Influence of ethylalcohol on helix—coil transition of poly (A + U)

S. TANAKA, Y. BABA and A. KAGEMOTO

(Osaka Institute of Technology, Omiya Asahi-ku, Osaka 535)

Thermal denaturation of DNA by environmental parameter

H. KATAYAMA, Y. BABA and A. KAGEMOTO

(Osaka Institute of Technology, Omiya Asahi-ku, Osaka, 535)

Thermal properties of aqueous hemoglobin solution

H. ISHIMO, Y. BABA and A. KAGEMOTO

(Osaka Institute of Technology, Omiya Asahi-ku, Osaka, 535)

Thermal properties in the crystalline state of proteins

Y. FUJITA and Y. NODA

(Hyogo College of Medicine, Mukogawa, Nishinomiya, Hyogo)

Heats of solution, micelle formation and binding with polymers of dodecyl sulfates in water and urea aqueous solution

H. KISHIMOTO and K. SUMIDA

(Faculty of Pharmaceutical Sciences, Nagoya City Univ., Tanabe-dori Mizuho-ku, Nagoya)

*The thermodynamics of the formation of complexes between ethylenediamine-*N,N'*-diacetic acid-*N,N'*-dipropionic acid and some group III element*

A. CHIBA, K. AKIMOTO and T. OGAWA

(Yokohama National Univ., Ohka, Minami-ku, Yokohama-shi)

Determination of vapor pressure-temperature relation of oxygen due to thermodynamic calculation

Y. SUYAMA and J. OISHI

(Dept. of Physics, College of Science and Eng., Aoyama Gakuin Univ., Chitosedai, Setagaya-ku, Tokyo)

Conduction-type calorimeter

T. ATAKE, H. CHIHARA

(Dept. of Chem., Faculty of Science, Osaka Univ., Toyonaka Osaka 560), M. ICHIHASHI and A. MAESONO
(Shinku Riko Co. Ltd., 300 Hakusan-cho, Midori-ku, Yokohama, Kanagawa 226)*³He cryostat for heat capacity measurement; heat capacity of copper between 0.4—20K*

N. ARAI, M. YOSHIKAWA, M. SIRAI, H. SUGA and S. SEKI

(Faculty of Science, Osaka Univ., Toyonaka 560, Osaka)

Thermal observation of localized magnon and impurity effect on phase transition for some magnetic compounds at low temperatures

K. TAKEDA

(Dept. of Material Physics, Faculty of Eng., Science, Osaka Univ., Toyonaka, 560)

Heat capacity of ferroelectric RbDSO₄

Y. HIGASHIGAKI and H. CHIHARA

(Dept. of Chem., Faculty of Science, Osaka Univ., Toyonaka, Osaka 560)

Thermodynamic study of phase transition phenomenon in (NH₄)₃FeF₆ crystal

K. MORIYA, T. MATSUO and H. SUGA

(Dept. of Chem., Faculty of Science, Osaka Univ., Toyonaka, Osaka, 560)

Calorimetric study on heat capacity and glass transition phenomenon of crystalline methylisothiocyanate

K. KISHIMOTO, H. SUGA and S. SEKI

(Dept. of Chem., Faculty of Science, Osaka Univ., Toyonaka, Osaka 560)

Calorimetric study on phase transitions of $(CH_3)_4I_3$

M. YOSHIKAWA, M. SORAI, H. SUGA

(Dept. of Chem., Faculty of Science, Osaka Univ., Toyonaka, Osaka 560) and H. KIRIYAMA
(The Institute of Scientific and Industrial Research, Osaka Univ., Yamadakami, Suita,
Osaka 565)

A calorimetric study of phase transitions in the $NaH_3(SeO_3)_2$ crystal

T. MATSUO, T. UTSUMI and H. SUGA

(Dept. of Chem., Faculty of Science, Osaka Univ., Toyonaka, Osaka 560)

Thermodynamic study of the glass transition of orthoboric acid- d_3 crystal

M. OGUNI, T. MATSUO and H. SUGA

(Faculty of Science, Osaka Univ., Toyonaka, Osaka 560)

*High resolution calorimetric study of the phase transition in the solid solution $SnCl_2(H_2O)_x$
 $(D_2O)_{2-x}$*

M. TATSUMI, T. MATSUO and H. SUGA

(Faculty of Science, Osaka Univ., Toyonaka 560, Osaka)

Enthalpies of combustion of acetanilide and nicotinic acid

T. SATU, A. KAMAGUCHI, M. SAKIYAMA and S. SEKI

(Dept. of Chem. Faculty of Science, Osaka Univ., Toyonaka, Osaka 560)

Determination of standard enthalpy of formation of crystalline and amorphous magnesium acetate

S. MURATA, M. SAKIYAMA and S. SEKI

(Dept. of Chem., Faculty of Science, Osaka Univ., Toyonaka, Osaka 560)