International Symposium
on
New Frontier of Thermal Studies of Materials
October 26-27, 1998

The 80th Anniversary Memorial Center
Nagatsuta Campus
(Sogo-Kenkyu-Kan)
Tokyo Institute of Technology
Nagatsuta-cho, Midori-ku, Yokohama, Japan

2nd Announcement
International Symposium on
New Frontier of Thermal Studies of Materials

Organized by
Materials and Structures Laboratory, Tokyo Institute of Technology

Under the Auspices of
The Japan Society of Calorimetry and Thermal Analysis
and
The Society of Promotion for Calorimetry and Thermal Analysis, Japan

With the Consent of

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<th>Food Preservation Science</th>
<th>Japan Oil Chemists' Society</th>
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<td>Japan Society of Cookery Science</td>
<td>Japan Society for Bioscience, Biotechnology, and Agrochemistry</td>
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<td>Japan Society for Safety Engineering</td>
<td>Japan Society of Refrigerating and Air Conditioning Engineers</td>
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<td>Japan Society of Polymer Processing</td>
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<td>Kinki Chemical Society, Japan</td>
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<td>The Society of Materials Science, Japan</td>
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Organizing Committee

Chairman
Tooru Atake (Mater. & Struct. Lab., Tokyo Inst. of Technol.)

Executive Committee
Mitsuru Itoh (Mater. & Struct. Lab., Tokyo Inst. of Technol.)
Hitoshi Kawaji (Mater. & Struct. Lab., Tokyo Inst. of Technol.)
Toshimasa Hashimoto (Fac. of Eng., Tokyo Inst. of Technol.)
Hirofumi Hinode (Fac. of Eng., Tokyo Inst. of Technol.)
Masaharu Oguni (Fac. of Sci., Tokyo Inst. of Technol.)
Masataka Wakihara (Fac. of Eng., Tokyo Inst. of Technol.)

Scope

The symposium will consider new frontier of thermal studies of materials. The principles of new functional materials such as high temperature superconductors, solid state ionics, fullerenes and other inorganic and organic substances will be discussed on the relationship between the structure and the physical properties, especially on the phase transition and glass transition mechanisms. The invited lectures given by distinguished scientists will cover also the thermal stabilities and new process of synthesis for the materials.

The symposium will be organized by the Materials and Structures Laboratory (Director: Akira B. Sawaoka), and be held under the auspices of The Japan Society of Calorimetry and Thermal Analysis (Chairman: Yoichi Takahashi) and The Society of Promotion for Calorimetry and Thermal Analysis, Japan (Chairman: Sachio Murakami).

Symposium Site

The 80th Anniversary Memorial Center in Nagatsuta Campus
(Sogo-Kenkyu-Kan)
Tokyo Institute of Technology
4259 Nagatsuta-cho, Midori-ku
Yokohama, 226-8503 JAPAN
# Tentative Time Table

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<td>10:00 Plenary lectures</td>
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<td>11:10 Plenary lectures</td>
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<td>13:00 Poster preview</td>
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<td>Poster session</td>
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<tr>
<td>15:30 Plenary lectures</td>
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<tr>
<td>16:20-16:40 coffee break</td>
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<td>16:40 Plenary lectures</td>
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<td>19:00 Closing ceremony</td>
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Symposium Registration

On Monday, October 26, the conference registration desk will be located in the convention place of The 80th Anniversary Memorial Center (Sogo-Kenkyu-Kan), Nagatsuta Campus, Tokyo Institute of Technology and open from 9 AM. The desk will be open also during the symposium.

Each participant will receive the abstracts booklet, a name badge and information about the area. Please wear your name badge at all the symposium events.

Registration Fees

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<tr>
<td>Active participant</td>
<td>¥10,000</td>
<td>[¥12,000]</td>
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<tr>
<td>Student</td>
<td>¥5,000</td>
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The registration covers:
- Admission to the scientific sessions
- Abstracts booklet
- Coffee, soft drinks during the breaks
- Banquet

Please send the registration form by September 30.
International Symposium on
New Frontier of Thermal Studies of Materials

Registration Form

Name of participant: __________________________________________________________
Title: _____________________________________________________________________
Address: ___________________________________________________________________
___________________________________________________________________________
___________________________________________________________________________
___________________________________________________________________________
Tel: ______________________ Fax: ____________________________
E-mail: ____________________________________________________________________

Registration fee Per person
・ Active participant: ¥10,000
・ Student: ¥  5,000

¥________________________________________

The registration fees  □  are paid through bank transfer
熱国際シンポジウム
阿竹徵
第一勧業銀行 青葉台支店
口 座番号  395-1711518
□  are paid through postal transfer
熱国際シンポジウム
口 座番号  00110-1-39176
or □ will be paid at the registration desk.

Signature _____________________________________ Date _________________________

Please Return to  Professor Tooru Atake, Symposium Chairman
Materials and Structures Laboratory
Tokyo Institute of Technology
4259 Nagatsuta-cho, Midori-ku
Yokohama, 226-8503 JAPAN
TEL:+(81) 45-924-5343
FAX:+(81) 45-924-5339
E-mail: sympo@thermo.rlem.titech.ac.jp

By September 30, 1998
Accommodation

"Seminar Plaza - Suzukakedai" will be available; 1 min walk from Suzukakedai station of Tokyu Den'entoshi Line and 5 min walk from the Symposium Site. ¥6,930 for single per one night including tax and service charge (TEL: 81-427-99-1121, FAX: 81-427-99-1171).

"Livable Square Minami Machida" will be available; 15 min walk from the Symposium Site, or 5 min walk from the next station (Minamimachida station of Tokyu Den'entoshi Line) of the Symposium Site (Suzukakedai station). ¥6,825 for single per one night including tax and service charge (TEL: 81-427-99-0109, FAX: 81-427-99-0281).

"Central Hotel Machida" will be available; 20 min railway from the Symposium Site (Suzukakedai station). 5 min walk from Machida station of JR Yokohama Line (transfer at Nagatsuta station from Tokyu Den'entoshi Line). ¥6,500 for single per one night including tax and service charge (TEL: 81-427-20-3011, FAX: 81-427-20-3022).

Social Event

A banquet will be held in the evening of October 26th (18:30 ～ 20:30) at Seminar Plaza - Suzukakedai. It will be free for participation.

Climate

Weather in Yokohama in October is normally dry with temperatures between 15 - 25℃.
How to Reach the Symposium Site

Participants from abroad are recommended to fly into Tokyo International Airport (Narita), and then make the connection to TIT Nagatsuta campus. Many trains (Keisei Line and JR Line) and airport limousine buses connect Narita airport to downtown Tokyo. The recommended routes are

1. Airport limousine bus from Airport to Tokyo City Air Terminal (TCAT)

   - 2,900 Yen, 70 min.
   - Walk from TCAT to Suitenguumaes station (Subway Hanzomon Line): about 5 min.
   - Subway Hanzomon Line from Suitenguumaes station to Suzukakedai station.
     (Tokyu Den'entoshi Line connected directly to the Subway Hanzomon Line).
     Please get off at Suzukakedai station of Tokyu Den'entoshi Line. (Express for Chuorinkan passes Suzukakedai station. Please change to a local train at Nagatsuta station.)
     Seminar Plaza - Suzukakedai is only 1 min walk from Suzukakedai station.
     490 Yen, 60 min

2. Keisei Narita Line from Narita station to Ueno station.

   - Limited Express-reserved seat (Skyliner) 1,920 Yen, 60 min
   - or Express 1,000 Yen, 80 min
   - Walk from Ueno station (Keisei Line) to Ueno station (Subway Ginza Line): about 5 min.
   - Subway Ginza Line from Ueno station to Omotesando station.
     Change the Subway Line from Ginza Line to Hanzomon Line at Omotesando station.
     Subway Hanzomon Line from Omotesandou station to Suzukakedai station
     (Tokyu Den'entoshi Line connected directly to the Subway Hanzomon Line).
     Please get off at Suzukakedai station of Tokyu Den'entoshi Line. (Express for Chuorinkan passes Suzukakedai station. Please change to a local train at Nagatsuta station.)
     Seminar Plaza - Suzukakedai is only 1 min walk from Suzukakedai station.
     490 Yen, 70 min (Ueno to Suzukakedai)
Presentation

Contributed papers will be presented by means of both oral and poster. These will allow further in-depth discussion and should display the major visual aids and data of the contribution. The time given for the oral presentation of a contributing paper is no longer than 2 minutes. Therefore, please use less than 2 of slides, transparencies and/or a PC projector.

Plenary lectures will be also presented by poster.

The official language of the symposium is English.

Slides
The 35 mm slides for presentation should be handed to the reception in front of the oral presentation room at least 15 min before the beginning of the session in which the presenter is scheduled to give a talk. The presentation code, the name of the presenter and the serial number for showing in the talk should be written on the right upper corner on each slide.

Transparencies
The transparencies for the overhead projector have to be handled by the presenter her- or himself.

PC Projector
The LCD projector which can be connected to personal computers is available. The presenter who want to use it should contact to the organizing committee before the symposium.

Poster
All the posters should be designed to fit an area, 180 cm (height) × 120 cm (width), and easily readable from a distance of 2 m. Poster room will be open at 9:00 AM. All the posters should be presented all time during the symposium (2 days). The presence of one of the authors is required at least one hour during the designated poster session.
Proceedings

Full-length paper will be published by Kluwer Academic Publishers in Journal of Thermal Analysis and Calorimetry. Those who present paper(s) are invited to submit manuscript(s) for the proceedings. All the manuscript will be carefully reviewed in regular manner by two independent referees. Please submit your contribution to the Symposium Chairman by October 20, 1998.

Related Meeting

After the Symposium period, the 34th Japanese Conference on Calorimetry and Thermal Analysis will be held in downtown Yokohama, 50 min by train from the Symposium site. Those who wish to attend the meeting should contact the chairman.

The 34th Japanese Conference on Calorimetry and Thermal Analysis

October 28(Wed)-30(Fri)

Yokohama-shi Kyoiku Bunka Hall (Education & Culture Center)
1-1 Bandai-cho, Naka-ku, Yokohama 231-0031
TEL: +81-45-671-3717
and
Yokohama-shi Ginou Bunka Kaikan (Skill & Cultural Hall)
2-4-7 Bandai-cho, Naka-ku, Yokohama 231-0031
TEL: +81-45-681-6551

Chairman of the conference: Prof. Tooru Atake
Materials and Structures Laboratory
Tokyo Institute of Technology
4259 Nagatsuta-cho, Midori-ku
Yokohama, 226-8503 JAPAN
TEL:+(81) 45-924-5343
FAX:+(81) 45-924-5339
E-mail: conf@thermo.rlem.titech.ac.jp
URL: http://thermo.rlem.titech.ac.jp/jccta34/
Tentative Program

Oct. 26 (Mon)

8:30-9:30 Registration

9:30-10:00 Opening ceremony T. Atake, presiding
Akira B. Sawaoka (Director, Materials and Structures Laboratory, Tokyo Institute of Technology)
Yoichi Takahashi (Chairman, The Japan Society of Calorimetry and Thermal Analysis)
Hiroo Inokuchi (Professor Emeritus, The University of Tokyo; National Space Development Agency of Japan)
Edgar F. Westrum, Jr. (Professor, Department of Chemistry, The University of Michigan)

10:00-10:25 Plenary lecture 1 chair M. Wakihara & T. Atake
Modeling Sub- and Super-ambient Heat Capacities with the Lanthanide Contraction and Group IVA Compounds
Edgar F. Westrum, Jr. (Dept. Chem., Univ. Michigan, USA)

Redox Thermochemistry of Non-stoichiometric Oxides Related to the Perovskite-, Brownmillerite-and K\textsubscript{2}NiF\textsubscript{4}-type
Svein Stølen (Dept. Chem., Univ. Oslo, Norway)

10:50-11:10 coffee break

11:10-11:35 Plenary lecture 3 chair A. Navrotsky
Thermal Behavior of Surfactant CTAB Containing Aromatic Compounds
Hiroshi Suga (Res. Inst. Sci. Tech., Kinki Univ., Japan)

11:35-12:00 Plenary lecture 4 chair A. Navrotsky
Phase Transitions Arising from Spin Crossover Phenomena (tentative title)
Michio Sorai (Microcalorimetry Res. Center, Osaka Univ., Japan)

12:00-13:00 lunch

13:00-15:30 Poster preview (odd numbers) and Poster Presentation

15:30-15:55 Plenary lecture 5 chair M. Itoh & H. Kawaji
Janusz Nowotny (Australian Nucl. Sci. & Tech. Org., Australia)
15:55-16:20  Plenary lecture 6  chair M. Itoh & H. Kawaji
High Temperature Reaction Calorimetry Applied to Metastable and Nanophase Oxides and Oxyhydroxides

16:20-16:40  coffee break

16:40-17:05  Plenary lecture 7  chair J. Nowotny & K.L. Ngai
Generalized Chemical Potential Diagram and Its Utilization in Materials Chemistry

17:05-17:30  Plenary lecture 8  chair J. Nowotny & K.L. Ngai
High Tc Superconductivity in Electron-doped Layered Metal Nitrides
Shoji Yamanaka (Dept. Appl. Chem., Hiroshima Univ., Japan)

17:30-17:55  Plenary lecture 9  chair J. Nowotny & K.L. Ngai
Study of Defect Chemistry of Lithium-based Oxide Ceramics with Vapor Pressure and Work Function Measurements
Michio Yamawaki (School Eng., Univ. Tokyo, Japan)

High-precision Heat Capacity Measurement of Liquid with Joule-heating AC Calorimetry I.
Ichiro Hatta (Dept. Appl. Phys, Nagoya Univ., Japan)

18:30-20:30  Banquet (Stand-up buffet dinner)

Oct. 27 (Tue)

9:30-9:55  Plenary lecture 11  chair T. Hashimoto & H. Hinode
Thermal Conductivities of Molecular Materials
Mary Anne White (Dept. Chem.,Dalhousie Univ., Canada)

9:55-10:20  Plenary lecture 12  chair T. Hashimoto & H. Hinode
Calorimetric Methods for the Determination of Fragility in Liquids from Both Thermodynamic and Kinetic Approaches
C. Austen Angell (Dept. Chem. & Biochem., Arizona State Univ., USA)

10:20-10:40  coffee break

10:40-11:05  Plenary lecture 13  chair T. Mitsuhashi
Enthalpy and Relaxation in Non-crystalline Solids
11:05-11:30  Plenary lecture 14  chair C.A. Angell
Deuteration-induced Phase Transitions in Hydrogen-bonded Crystals
Takasuke Matsuo (School Sci., Osaka Univ., Japan)

11:30-11:55  Plenary lecture 15  chair C.A. Angell
Study on Phase Transitions of Functional Materials, Doped CeO\textsubscript{2} and Ti-isotope Controlled PbTiO\textsubscript{3} by Heat Capacity Measurement
Tsuneo Matsui (Dept. Quantum Eng., Nagaya Univ., Japan)

11:55-13:00  lunch

13:00-15:30  Poster preview (even numbers) and poster presentation

15:30-15:55  Plenary lecture 16  chair M. Oguni & S. Kidokoro
Decoupled Molecular Dynamics of Small Molecule Glass-forming Liquids Confined in Nano-pores
K.L. Ngai (Naval Research Laboratory, USA)

15:55-16:20  Plenary lecture 17  chair M. Oguni & S. Kidokoro
Dynamics and Thermodynamics of Protein Folding

16:20-16:40  coffee break

16:40-17:05  Plenary lecture 18  chair H.J. Hinz & J. Malek
Thermodynamic Properties of Formyltransferase from Hyperthermophilic Methanopyrus Kandleri
Katsutada Takahashi (Lab. Biophys. Chem., Osaka Prefecture Univ., Japan)

17:05-17:30  Plenary lecture 19  chair H.J. Hinz & J. Malek
Heat Capacity of Intercalated Layered Materials Fe\textsubscript{x}NbS\textsubscript{2} at Low Temperature
Toshihide Tsuji (Japan Advanced Inst. Sci. Tech., Hokuriku, Japan)

17:30-17:55  Plenary lecture 20  chair H.J. Hinz & J. Malek
Heat Capacity of One-dimensional Na\textsubscript{2}Ru\textsubscript{4}O\textsubscript{9}

18:00-19:00  Plenary discussion  M.A. White and S. Stølen, presiding

19:00  Closing ceremony  T. Atake, presiding
Posters

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Molecular Aggregation State of Acrylic and Methacrylic Acid Esters Containing Long Fluorocarbon Chains and Their Polymarizability
A. Fujimori, H. Saitoh and Y. Shibasaki (Saitama Univ.)

p-2
Calorimetric Investigation of the Monolayers Formed at Solid-liquid Interface
A. Inaba (Osaka Univ.)

p-3
High Temperature Reaction Calorimetry Applied to Metastable and Nanophase Oxides and Oxyhydroxides
A. Navrotsky (Univ. California Davis, USA)

p-4
Modeling Sub- and Super-ambient Heat Capacities with the Lanthanide Contraction and Group IVA Compounds
E.F. Westrum, Jr. and B.H. Justice (Univ. Michigan, USA)

p-5
Dynamics and Thermodynamics of Protein Folding
H. Hinz (Wilhelms Univ., Germany)

p-6
Thermal Behavior of Surfactant CTAB Containing Aromatic Compounds
H. Suga (Kinki Univ.)

p-7
Generalized Chemical Potential Diagram and Its Utilization in Materials Chemistry

p-8
Structure Relaxation of n-alkanes Observed by the Simultaneous DSC-FTIR Method
H. Yoshida (Tokyo Metropolitan Univ.)

p-9
High-precision Heat Capacity Measurement of Liquid with Joule-heating AC Calorimetry I
I. Hatta, H. Yao and K. Ema (Nagoya Univ.)

p-10
High-precision Heat Capacity Measurement of Liquid with Joule-heating AC Calorimetry II
H. Yao, K. Ema and I. Hatta (Tokyo Inst. Technol.)

p-11
Phase Transition and Thermal Property of the Synthesized Leucite-type Compounds
I. Yanase, H. Kobayashi and T. Mitamura (Saitama Univ.)

p-13
Enthalpy and Relaxation in Non-crystalline Solids
J. Malek (Univ. Pardubice, Czech)
Analysis of High Order Harmonics in Temperature Wave for Fourier Transform Thermal Analysis
J. Morikawa and T. Hashimoto (Tokyo Inst. Technol.)

Enhancement of Thermal Dissociation of DNA in Aqueous Solution by Ceramic Treatment of Water
K. Amaya (J.B.I. Co. Ltd.)

Toluene in Liquid, Supercooled-liquid and Glass States: Raman-spectroscopic Studies
K. Ishii, H. Nakayama, T. Hosokawa, M. Watanabe and C. Abematsu (Gakushuin Univ.)

Calorimetric Methods for the Determination of Fragility in Liquids from Both Thermodynamic and Kinetic Approaches
K. Ito, L. Martinez, J. Fan and C. A. Angell (Arizona State Univ., USA)

High Oxygen Ion Conductivity of Perovskite Related Oxide System (Ba$_{1-x}$La$_x$)$_2$(In$_{1-y}$Ga$_y$)$_2$O$_{5+x/2}$
K. Kakinuma, H. Yamamura, H. Haneda and T. Atake (Kanagawa Univ.)

Deuteration-induced Phase Transitions in Hydrogen-bonded Crystals
K. Kohno, T. Maekawa, M. Fukai, O. Yamamuro, A. Inaba, T. Matsuo and M. Ichikawa (Osaka Univ.)

Decoupled Molecular Dynamics of Small Molecule Glass-forming Liquids Confined in Nano-pores
K.L. Ngai (Naval Res. Lab., USA)

Structure of a Lamellar Phase Formed by Nonionic Surfactant and Water
K. Minewaki, T. Kato, H. Yoshida and M. Imai (Tokyo Metropolitan Univ.)

Intramolecular Motional Degrees of Freedom and Phase Behavior of Molecular Systems
K. Saito (Osaka Univ.)

Thermal Studies of Intermolecular Magnetic Interactions of Genuine Organic Compounds under Pressure
K. Takeda, M. Mito, K. Mukai, F. A. Neugebouer and M. Kinoshita (Kyushu Univ.)

Excess Thermal Expansion Coefficients of Polar Mixtures and Aqueous Solution
K. Tamura (Osaka City Univ.)

Thermal Conductivities of Molecular Materials
M. A. White (Dalhousie Univ., Canada)
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Formation of Amorphous AgI Aggregates Dominating Fast Ion Conductitity in AgI-based Glasses
M. Hanaya, A. Hatake and M. Oguni (Tokyo Inst. Technol.)

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Borate Anomaly in Lithium Borate Glasses with Special Reference to Their Densities and Ultrasonic Velocities
M. Kodama, S. Feller and M. Affatigato (Kumamoto Inst. Technol.)

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Thermal Control of Growth Mode in Laser MBE of SrTiO₃ Film
M. Lippman, S. Ohashi, M. Kawasaki and H. Koinuma (Tokyo Inst. Technol.)

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Relationship Between Calorimetric Entropy and Statistical Entropy of the Nonequilibrium System with Heat Exchange
M. Ochiai, R. Ozao and Y. Yamazaki (North Shore College SONY Inst.)

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Phase Transitions Arising from Spin Crossover Phenomena
M. Sorai (Osaka Univ.)

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Neutron Inelastic Scattering Study of Ferroelectric Phase Transition in Li₂Ge₁₋₀.₁₅ O₁₅
M.W. Takeda, Y. Noda, T. Yamaguchi and Y. Iwata (Shinshu Univ.)

p-32
Study of Defect Chemistry of Lithium-based Oxide Ceramics with Vapor Pressure and Work Function Measurements
M. Yamawaki, A. Suzuki, T. Yokota and K. Yamaguchi (Univ. Tokyo)

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J. Nowotny (Australian Nucl. Sci. & Tech. Org., Australia)

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Magnetic Heat Capacity and Monte Carlo Simulation of LiNiO₂

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Commercial Apparatus for Measuring the Heat Capacity of Small Samples from 1.9 K to 350 K
R. Black, J. Diederichs, S. Spagna, M. Simmonds and S. Tripp (Quantum Design)

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Heat of Formation for Solid Solution LiM₀.₇Mn₂₋₀.₇O₄ (M=Mg, Ni) Spinels
R. Yamaguchi, H. Ikuta and M. Wakihara (Tokyo Inst. Technol.)

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PH Dependence of Enthalpy Change Accompanying the Thermal Transition of Small Globular Proteins
S. Kidokoro (Sagami Chem. Res. Center)
Survey of Chalcogenide Superconductors  
S. Nagata and T. Atake (Muroran Inst. Technol.)

Thermodynamic Properties of Formyltransferase from Hyperthermophilic Methanopyrus Kandleri  

Redox Thermochemistry of Non-stoichiometric Oxides Related to the Perovskite-, Brownmillerite- and $K_2NiF_4$-type  
S. Stølen (Univ. Oslo, Norway)

High Tc Superconductivity in Electron-doped Layered Metal Nitrides  
S. Yamanaka (Hiroshima Univ.)

Thermal Investigation of Monoclinic Hydroxyapatite Prepared by Wet and Dry Methods  
T. Ikoma, Y. Kubo, S. Nakamura, M. Akao and A. Yamazaki (Waseda Univ.)

Thermal Properties of Three Hydrate Crystals (A, M and H) of Guanosine  
T. Kimura, M. Unetani, Y. Sugawara, H. Urabe and S. Takagi (Kinki Univ.)

Study on Phase Transitions of Functional Materials, Doped CeO$_2$ and Ti-isotope Controlled PbTiO$_3$ by Heat Capacity Measurement  
T. Matsui, H. Shigematsu, Y. Arita, S. Yamazaki, T. Futatsugi and T. Ohashi (Nagoya Univ.)

Heat Capacity of One-dimensional Na$_2$Ru$_4$O$_9$  

Improvement of Electrical Conductivity in Fluorite CeO$_2$ and Fluorite Related Y$_2$O$_3$ Systems Based on a Unique Effective Index  

Phase Transition and Structural Changes in CaFeO$_3$  
T. Takeda, R. Kanno, Y. Kawamoto, M. Takano and T. Kamiyama (Kobe Univ.)

Heat Capacity Measurement of $(Cr_{1-x}M_x)_3Te_4$ (M=Fe,Ni) at High Temperature  
Heat Capacity of Intercalated Layered Materials Fe$_2$NbS$_2$ at Low Temperature  

Identification of Kind of Polyethylene by DSC -Application to Forensic Science-  
T. Tsukame, M. Kutsuzawa, H. Sekine, H. Saitoh and Y. Shibasaki (Saitama Prefecture Police H. Q.)

Thermal Diffusivity Measurement of CVD Diamond Films Using a Laser-heating AC Calorimetric Method  
T. Yamane, S. Katayama and M. Todoki (Toray Res. Center, Inc.)

Temperature-related Phase Transitions in CuO  
X.G. Zheng et al. (Saga Univ.)

Correlation of Thermal Stability and Corrosion Property in High-temperature Superconductors  
X.G. Zheng et al. (Saga Univ.)

Ultra Slow Relaxation Dynamics Studied by Impulsive Stimulated Thermal Scattering  
Y. Tsujimi, M. Kobayashi, T. Matsui, H. Furuta and T. Yagi (Hokkaido Univ.)

Combustion Calorimetry of Carbons  
Y. Nagano, M. Gouali, T. Sugimoto and Y. Achiba (Osaka Univ.)

Properties of Ln$_{1-x}$Sr$_x$MnO$_3$ (Ln=La-Gd) as the Cathode Material for Solid Oxide Fuel Cells  

Journal of Thermal Analysis and Calorimetry; Past, Present and Future  
J. Simon (Tech. Univ. Budapest)

Dopant Mass Effect on the Lattice Vibrations of Scandia- and Yttria-doped Zirconia  
Deadlines

Abstract: September 30, 1998
Registration and Payment: September 30, 1998
Manuscript for Proceedings: October 20, 1998

Further Inquiries

Professor Tooru Atake, Symposium Chairman
Materials and Structures Laboratory
Tokyo Institute of Technology
4259 Nagatsuta-cho, Midori-ku
Yokohama, 226-8503 JAPAN
TEL: +(81) 45-924-5343
FAX: +(81) 45-924-5339
E-mail: sympo@thermo.rlem.titech.ac.jp
URL: http://thermo.rlem.titech.ac.jp/sympo/