

★第32回アメリカカロリメトリー会議

(32nd Annual Calorimetry Conference)

1977年7月6日～8日

カナダ・ケベック州 Sherbrooke にて

1. Combustion and adsorption methods
2. Heats of reactions
3. Titrations and flow techniques
4. Heat capacity: solids, solutions, polymer, biopolymers.
5. Calorimetry in extreme conditions: high pressure and temperature
6. New apparatus and techniques
7. Data treatment.

参加希望者は報告(20分)のアブストラクトを下記 chairman まで至急送られたい。

Professor Stanley Gill, Chemistry Department
University of Colorado, Boulder, Colorado 80309
U.S.A.

★第1回チェコスロバキアカロリメトリー会議

(First Czechoslovak Conference on Calorimetry)

チェコスロバキア科学アカデミー及び化学会主催の第1回カロリメトリー会議が1977年8月30日～9月2日にわたり、プラハ近郊の Liblice において開催される。次の4つがこの会議の主題目となる。

1. 結晶の熱容量, エンタルピー, 転移熱の測定, とくに相転移現象の動力学的研究
2. 化学吸着, 固体表面反応のカロリメトリー, 吸着分子の挙動と化学吸着機構の研究
3. 混合熱, 希釈熱, 蒸発熱など液体系のカロリメトリー
4. 測定法, 装置, オートメーション, 極端条件下のカロリメトリー

興味ある方は下記に連絡されたい。

Dr. M. Smíšek
Institute of Inorganic Chemistry
Czechoslovak Academy of Sciences
Hlavova 2030
128 40 Prague 2
Czechoslovakia

★第5回国際熱分析会議 (ICTA V)

1977年8月1日～6日, 国立京都国際会館にて。

1. 理論および装置
2. 無機化合物の熱分析

3. 有機化合物および高分子の熱分析
4. 地学における熱分析
5. 応用科学における熱分析
6. 熱量測定, 反応系, 非反応系

連絡先

〒113 東京都文京区湯島 1-5-31 第一金森ビル
日本熱測定学会内 第5回国際熱分析会議

★第5回化学熱力学国際会議

開催日が変更されましたのでご注意ください。

(Fifth International Conference on Chemical Thermodynamics)

International Union of Pure and Applied Chemistry および Swedish National Committee for Chemistry 共催。
1977年8月23～26日に Ronneby (Sweden) にて開催の予定。

- 主題:(1) 物理的变化の熱力学(熱容量, 相転移など)
(2) 化学変化の熱力学
(3) 電解質および非電解質水溶液の熱力学
(4) 生物熱力学

Ronneby は Baltic Sea に面した Sweden 南部の風光明媚な小都市で国際学会に必要な諸設備は完備している。日本からは Copenhagen 経由のルートが便利であろう。今回は1977年5月に Braunschweig で “Thermodynamik flüssiger und gasförmiger Mischungen” に関する学会が開催されることを考慮して、液体混合物の熱力学は主題から外されている。本会議では①総合講演(4～6), ②ポスターセッション(4), ③討論セッションが予定されている。このうちポスターセッションは当会議では初めての試みで、大きい部屋に複数の報告者が表, グラフ, 写真などを一定時間提示し、一般参加者は自由に移動して、報告者との十分な議論を保証しようというもので、欧米での経験では一般に好評である。(詳細は Science **184**, 1361 (1974) を参照されたし) ポスターセッションでの報告希望者は1977年5月15日までに200字以内のアブストラクトを提出のこと。連絡先:
Dr Stig Sunner, Dr Ingemar Wadsö
Fifth International Conference on Chemical Thermodynamics, Chemical Center,
Lund University, P.O.B. 740,
S-22007 Lund, Sweden

★ 31st ANNUAL CALORIMETRY CONFERENCE

Argonne National Laboratory
Sept. 29 Oct. 2, 1976

PROGRAM

Session I - Plenary Session

1976 Huffman Lecture
Titration calorimetry- A method for all solutions
J. J. Christensen, Brigham Young University.
Plenary Lecture in thermochemistry and thermodynamics of biological systems
Introduction: N. Langerman
Plenary lecture: The thermodynamics of a self-assembling protein system
T. S. Waltham

Session IIA - Thermochemistry of Actinides

R. Wood, Presiding

Solution calorimetric study of magnesium uranate
J. Boerio, H. R. Hoekstra, P. A. G. O'Hare
Thermodynamic properties of UH_3 , UD_3 and UT_3 from 0 to 700 K
H. E. Flotow
Sodium uranium (V) trioxide, NaUO_3 : Heat capacity and thermodynamic properties from 5 to 350 K
W. G. Lyon, D. W. Osborne, H. E. Flotow, H. R. Hoekstra

The high temperature enthalpies of uranium and plutonium nitrides and carbides
F. L. Oetting

Enthalpies of formation of cesium chloro- and bromoheptanates
J. Fuger

A new approach to the determination of the thermodynamic properties of non-stoichiometric refractory oxides at high temperatures
R. J. Ackermann, E. G. Rauh

Session IIB - Calorimetric Studies of Protein Systems

S. Gill, Presiding

Acylation of α -chymotrypsin; Thermodynamic behavior of ionization processes
D. W. Bolen, J. L. Slightom

Specific heat and specific volume of aqueous organic solutes and α -chymotrypsin and several derivatives
C. Jolicoeur, J. Boileau, P. A. Ledue, R. Lumry, F. de Medicis, A. Losurdo, W. Y. Wwn, J. C. Mercier
Heats of dilution of hemoglobin A and S
W. A. Tisel, B. E. Hedlund, A. Rosenberg

Calorimetric studies of group modified proteins
B. R. Streenathan, C. J. Martin, M. A. Marini

Session IIIA - Thermodynamics and Thermochemistry of Aqueous Systems

C. Criss, Presiding

An equation of state describing hydrophobic interactions
S. J. Gill, I. Wadso

The solubility of halogen containing gases in water, 5 to 40°C
D. Peterson, R. Battino

Thermodynamic properties of ternary aqueous systems
J. E. Desnoyers, G. Perron

Thermodynamic studies of water + tetrahydrofuran mixtures
O. Kiyohara, G. C. Benson

Heat capacities of aqueous electrolyte eight 1:1 electrolytes and C_p for ionization of water at 298K
P. P. Singh, E. M. Woolley, K. G. McCurdy, L. G. Hepler

Measurement of heat contents of $\text{NaCl-H}_2\text{O}$ solutions at temperatures to 1000K and pressures to 2 kilobars
R. B. Kasper, A. Navrotsky

Recent thermodynamic studies on the origin of substituent effects in organic acid
H. P. Hopkins

Session IIIB - Development and Analysis of Calorimetric Equipment

B. Cassel, Presiding

A refrigerant-11 calorimeter for measurement of steady-state powers
H. P. Stephens

A heat conduction calorimeter for the measurement of solid heat producing samples
R. M. Hart, L. D. Hansen, J. J. Christensen

A new backmixed vessel for isothermal titration calorimeters
T. C. Hanson, B. D. Smith

A computer controlled isothermal and isoperibol calorimeter system
L. D. Hansen, J. J. Christensen, D. J. Eatough
R. M. Hart, R. Jaffe

Measurement limits of solution calorimeters
R. M. Hart, L. D. Hansen, J. J. Christensen, D. J. Eatough, R. Jaffe

On the response time of tronac isothermal calorimeters
L. D. Hansen, J. J. Christensen, D. J. Eatough, R. M. Hart, R. Jaffe

Session IVA - Thermodynamic and Thermochemistry of Interacting Systems

I. Wadso, Presiding

Calorimetric investigation of the interaction of metal ions with cyclic polyesters
R. M. Izatt, J. S. Bradshaw, J. J. Christensen, T. E. Jensen, L. D. Hansen, J. Lamb

The interaction of metal ions with cyclic polyethers in methanol solvents
J. Lamb, R. M. Izatt, B. L. Haymore, J. J. Christensen

A thermodynamic description of the self-association of flavin mononucleotide
N. Langerman, M. Gozalez

Thermodynamics of aromatic heterocyclic base-nucleic acid intercalation reactions
E. A. Lewis

Thermodynamic studies of deoxyuridylylate binding to thymidylylate synthetase
N. V. Beaudette, R. L. Kisliuk, Y. Gaumont, N. Langerman

Calorimetric studies of Mg^{++} and P_i Binding to Na-K ATPase and Ca ATPase
Y. Kuriki, J. Halsey, R. Biltonen, E. Racker

Session IVB - Thermodynamics and Thermochemistry of Non-Aqueous Systems

C. Jolicoeur, Presiding

Partial molal heat capacities of tetraalkylammonium bromides in anhydrous methanol
C. M. Criss

Heat of mixing data as a function of pressure for the system cyclohexane - hexane
J. J. Christensen, B. Witt, L. D. Hansen, D. J. Eatough, R. M. Izatt

Determination of excess volumes in the cyclohexane + benzene and the cyclohexane + n-hexane systems with a vibrating tube densimeter
J. R. Goates, J. B. Ott, J. F. Moellmer

The excess thermodynamic functions for mixtures of n-hexane with cyclohexane
J. B. Ott, J. R. Goates, R. J. Moss, D. W. Farrell

Session V - Symposium on Low Temperature Calorimetry Including Biological Materials

Opening Remarks
D. Osborne, Symposium Chairman

The low-temperature heat capacity of fcc Tl-Pb-Bi alloys and its relation to superconducting properties
F. Hermans, J. D. Boyer, N. E. Phillips

Recent low-temperature calorimetry of orientational disorder in crystals
E. F. Westrum, Jr.

Magnetism and heat capacity of transition metal alloys
R. Kuentzler

Low temperature calorimetry of protein models: homopolypeptides
L. X. Pinegold

Thermal properties of biopolymers over a wide temperature range, including liquid helium temperatures
E. L. Andronikashvili, G. M. Mrevlishvili

Session VIA - Enthalpy of Formation

Y. I. Chia, Presiding

The enthalpy of formation of strontium monoxide
I. J. Brink, C. E. Holley, Jr.

Experimental measurement of the enthalpy of formation of liquid and crystalline 9, 10-dihydrophenanthrene
W. D. Good, S. H. Lee

The enthalpy of formation of praseodymium trifluoride by fluorine bomb calorimetry
R. G. Pennell, G. K. Johnson, W. N. Hubbard

Enthalpy and heat-capacity measurements on molybdenum (NBS calorimetric standard reference material No.781) in the temperature range 273 to 2800K
D. A. Ditmars, A. Cezairliyan, S. Ishihara, T. B. Douglas

A calorimetric investigation of alloy systems of tin and lead with basic metals
A. Borcese, G. Borzone, A. Calabretta, S. Delfino, R. Ferro

Session VIB - Technical Development
D. Eatough, presiding

A highly-linear variable rate pump for biological flow microcalorimetry
B. G. Barisas

A flow-through rapid response densitometer
L. D. Hansen, B. Witt, J. L. Oliphant
Carbon and graphite monofilaments as an in-line electron beam energy monitor
D. V. Keller, D. A. Rice

Session VII - A Symposium on Computerized Data Banks in Chemistry and Thermodynamics
Opening Remarks
W. Hubbard, Symposium Chairman

The national resource for computation in chemistry
A. C. Wahl

A survey of active computerized physico-chemical numerical data systems
J. Hilsenthrath

Computer handling of thermodynamic data for interactive use to determine equilibrium levels or fo/no-go situations in real or hypothetical processes
G. P. Jones

Progress and problems in the creation of upkeep of a thermochemical data-bank

Session VIII - Symposium on Calorimetric Studies of Interacting Systems
Introduction: N. Langerman,
L. G. Hepler, Symposium Chairman

Some aspects of the study of micro-organisms by microcalorimetry
A. E. Beezer

Thermochemical and thermokinetic studies of reactions catalyzed by the nitrogen reducing enzyme nitrogenase
G. D. Watt,
Thermochemistry and enzyme properties

J. A. Rupley
Calorimetric investigation of inorganic ions in solution
R. Arnek

Applications of flow and ampoule calorimetry to reactions in aqueous solution
L. G. Hepler

Session IXA - The use of Calorimetry as an Analytical Tool
P. Ross, Presiding

A calorimetric investigation of the growth of the luminescent bacteria *beneckea harveyi* and photobacterium *leognath*
P. McIlvaine, N. Langerman

The effects of oxygen depletion and antibiotics on the calorimetry of microbial growth
J. S. Binford, Jr., R. R. Dow, L. F. Binford
Calorimetric studies of normal and transformed tissue cultures
T. E. Jensen, D. J. Eatough, J. J. Christensen, R. M. Izatt

Microcalorimetric characterization of microbial activity in soil
K. Ljungholm, B. Noren, R. Skold, I. Wadso

Automated batch calorimetric analysis of food contaminants and pesticide residues
E. D. Brown, S. K. Chattopadhyay, J. E. Snell, L. Cernohlavek

Use of calorimetry to study acid species in air particulate samples
D. J. Eatough, T. E. Jensen, R. M. Izatt, L. D. Hansen

Session IXB - Heat Capacity Measurements
J. Andrews, Presiding

Description and analysis of a differential scanning calorimeter based on the heat-leak principle
D. B. Mountcastle, J. Suurkuusk, M. Halsey, R. L. Biltonen

User evaluation of a differential scanning calorimeter
R. W. Carling, J. J. Bartel

Transformation of the excess heat capacity function of macromolecules into thermodynamic parameters describing the partition function of the system
E. Freire, R. L. Biltonen

Heat capacities of the lighter lanthanide trifluorides from 5 to 350 K
W. G. Lyon, D. W. Osborne, H. E. Flotow

Heat effects upon annealing deformed 304L austenitic stainless steel
R. K. Stout, C. R. Brookds

The effect of selected cadmium and zinc dopant ions upon the magnetic disordering temperature and enthalpy of synthetic $-Fe_3O_4$
J. J. Bartel, R. W. Carling

★ Program of Symposium on Thermal Analysis New Techniques-New Application

1975年9月23日~25日

Kraków, Poland

Verhiedene neue thermogravimetrische Anwendungen auf dem Gebiete der Metallurgie, Mineralogie und anorganischen Chemie, H. Wiedemann

Application of the thermal analysis in the hydrometallurgy of zinc and aluminium, W. Piesenkampf, M. Stycaynska, W. Zabinski

Analysis of DTA curves of melting of metals, Z. S. Kolenda, J. Horvath, A. Renkiewicz

Application of thermal analysis for the determination of the phase composition of nitrides inclusions in high strength steels, A. Forasinski, I. Sheybal, J. Drobniak

Ein neues Gerät für quantitative DTA und einige Anwendungen in der organischen Chemie, K. Vogel

Investigation of thermal properties of polyvinyl carbazole and its derivatives, J. Fielichowski, E. Morawiec

DTA investigation of phase equilibria in liquid crystals systems, M. Vietz, T. Drozdka

DTA of the, - irradiated, glassy methylcyclohexane, J. Koch, E. Szafradzinska, W. Siatkowiec

Application of thermal analysis for the investigation of reactivity and degree of curing of some electro-insulating lacquers, Z. Jaskolska

The application of thermal analysis in the investigation of mineral raw materials for orthophosphoric acid production, K. Rowol

Thermal analysis of the clathrate and complex compounds of nickel thiocyanate and picolines and its use in preparative separation of picolines, W. Semula, J. Gaarnicki

Determination of kinetic parameters of the thermal dissociation of acetylacetonates of the transition metals of the IV period, J. Maslowska, J. Baranowski

Kinetical constants of the thermal decomposition of coal, S. Heilpern

Thermal dissociation of the basic aluminium-ammonium sulphate in vacuum, B. Frenowska, J. Fysiak

Thermogravimetry of the products of precipitation of goethite.

Influence of the shape and composition of crucibles on the thermogravimetric curve of $CaC_2O_4 \cdot H_2O$, P. Knapowska, E. Zdanovics

Phase transformations of the compounds of MBr-UBr systems (M=Li, K, Rb, Cs), W. Szaepaniak, M. Wianowski

Synthesis of polyhalite, J. Tajler

Decomposition of SiC by feldspar fluxes at high temperatures, J. Rzechuta, A. Fielak

Influence of the raising of maturation temperature of concrete on its carbonisation, J. Komarobloska-Laurou

Application of DTA to the testing of degree of carbonisation of concrete elements covered with ceramic plates, I. Stabnicka, P. Weslowska

★NATAS/76 Program

(Sixth North American Thermal Analysis Society Conference)

1976年6月20日~23日

Princeton University, New Jersey

Plenary Lecture

H. J. Maddis, Ontario Research Foundation, Canada
"Environmental Applications for Thermal Analysis"

1976 Mettler Award Lecture

P. A. Gallagher, Bell Laboratories, Murray Hill, New Jersey
"Some Contributions of Thermal Analysis to the Study of Catalysis"

Session 1; New Techniques

Torsional Pendulum and Torsional Braid Analyses of Polymeric Materials, J. K. Tillham

Recent Advances in Thermogravimetric Analysis of Polymer and Elastomer Formulation, B. Cassel

A Thermal Evolution-Differential Trapping-Mass Spectrometric Technique for Polymer Characterization, J. Chiu, A. Beattie

Direct Analysis of Polymer Pyrolysis Using Laser Microprobe Techniques, E. M. Lum

Techniques for Studying the Pyrolysis of Polymers at Very High Heating Rates, E. Miller, J. R. Martin, H. Wang

Session 2; The Application of Thermal Analysis to the Study of Biological Systems

Thermal Techniques in Biomembrane and Lipoprotein Research.
I. Thermal Studies in Membrane Biology- Differential Scanning Calorimetry, P. L. Melchior, J. M. Steim

Thermal Techniques in Biomembrane and Lipoprotein.
II. Thermal Studies in Membrane Biology- Differential Scanning Calorimetry, P. J. Scavitto, J. M. Steim

Thermal Techniques in Biomembrane and Lipoprotein.
III. Thermal Studies of Lipoprotein Structure, M. T. Walsh, J. M. Steim

Applications of a Novel Differential Scanning Calorimeter Based on the Heat Conduction Principle to the Study of Biological System, D. S. Mountcastle

Theoretical and Experimental Differential Scanning Calorimetric Studies of Enzyme-Substrate Reactions, L. F. Whiting, F. W. Carr

Session 3; Polymers and Organic Materials

Total Thermal Analysis of Polymers, H. L. Flinn

Characterization of Polymeric Electrical Insulators by Thermal Analysis, J. L. Haberfeld, J. F. Johnson, J. Tanaka

Kinetics of Epoxy Resin Polymerization Using Differential Scanning Calorimetry, P. Pagan, W. D. Bascom

A New Series of Liquid Crystal Compounds.

I. Thermal Properties of 4-Alkyl-4'-Cyanotolanes, H. J. Cox, R. C. Gaskill, J. F. Johnson, W. J. Cleak

A New Series of Liquid Crystal Compounds.

II. Thermal Properties of 4-Alkyl-4'-Cyanostilbenes, H. J. Cox, R. C. Gaskill, J. F. Johnson, W. J. Cleak

Session 4; General

Detection Nonconforming Systems in the Determination of Purity by Differential Scanning Calorimetry, J. D. McGary

Effect of Thermal Transport Mechanisms on the Thermal Decomposition of Calcium Carbonate, P. K. Gallagher, D. V. Johnson, Jr., K. M. Caldwell

Phase Diagram for the Ternary System LiCl-CaCl₂-CaCrO₄, H. P. Clark

Thermal Characteristics of Desensitizing Waxes for Use with Explosives, J. Harris

Effect of Different Carbons on Ignition Temperature and Activation Energy of Black Powder, A. D. Kirshenbaum

High Temperature Thermal Analysis, A. F. Sisson

Session 5; Joint Symposium with ASTM Committee E-37 on Thermoanalytical Test Methods

Some Applications of Thermal Analysis to or Replacement for ASTM Testing Standards, K. P. Spennon

Thermoanalytical Methods in Vulcanizate Analysis.

I. DSC and the Heat of Sulphur Vulcanization, P. W. Bratler

Thermoanalytical Methods in Vulcanizate Analysis.

II. Derivative Thermogravimetric Analysis, D. W. Bratler

A Standardization Procedure for Purity Determination by Differential Scanning Calorimetry, A. P. Trup

★第7回全ソビエト連邦熱測定学会プログラム

(1977年1月31日~2月3日)

於 モスクワ, ロモノーソフ記念国立モスクワ大学
化学部

(阪大理 崎山 稔訳)

Plenary lectures

1. Ya. I. Gerasimov, "Perspectives of progress in chemical thermodynamics during the 10-th five-year plan".
2. V. A. Medvedev and I. L. Khodakovskii, "Thermodynamic studies needed for the selection of key thermodynamic quantities".
3. D. Wagman (U.S.A.), "Problems on the establishment of consistent thermodynamic data system".
4. I. B. Rabinovich, "Progress in thermodynamics of organic compounds in U.S.S.R.".
5. S. Sunner (Sweden), "Problems in Combustion Calorimetry".
6. L. N. Galiperin, "Recent status and tendencies in differential calorimetry".
7. V. Zelenkevich (Poland), "Dynamic properties of a calorimetric system".
8. G. N. Gusenkov and G. A. Krestov, "Problems in the non-linear theory of differential scanning calorimetry".
9. L. V. Gurvich, "Recent progress in statistical-dynamical calculation of thermodynamic functions of gases".
10. E. F. Westrum, Jr. (U.S.A.), "The latest attainment in the thermodynamics of pnictides and chalcogenides of transition metals".
11. Z. V. Mogutov, "Thermochemistry of decomposition reaction of solid solution of super-saturated α -iron".

Section I. Thermodynamics of inorganic compounds.

- 1-1. V. M. Lazarev, Yu. Ya. Suponitskin and M. Kh. Karapet'yants, "Thermodynamic properties of gadolinium orthomolybdate".
- 1-2. Yu. D. Tret'yakov, Ya. A. Kesler, and I. V. Gordeev, "Enthalpies of formation of chalcogenide spinels".
- 1-3. Yu. D. Tret'yakov, A. V. Rozantsev, Ya. A. Kesler, I. V. Gordeev, and T. Z. Komm, "Thermodynamics of rare earth aluminates".
- 1-4. V. S. Pervov, V. Ya. Leonidov and A. G. Muravina, "A New determination of enthalpy of formation of nickelous difluoride".
- 1-5. V. Ya. Leonidov, O. M. Gaisinskaya and V. S. Pervov, "On the possibility of correlating enthalpy of formation with composition in the system wolfram-boron".
- 1-6. N. V. Chelovskaya, A. N. Kornilov, V. I. Zhelankin and G. P. Shevkin, "On the possibility of determining heat of formation of transition metal carbides from heat of combustion data of the oncarbides".
- 1-7. I. M. Ushakova, A. N. Kornilov, "Some methodological problems in thermodynamics of inorganic compounds".
- 1-8. T. Kh. Azizov, A. S. Abbasov, F. M. Mustafaev and I. Ya. Aliev, "Determination of enthalpies of formation of Ce_2Te_3 , Dy_2S_3 , Dy_2Se_3 , Dy_2Te_3 , Yb_2S_3 and Yb_2Se_3 ".
- 1-9. N. I. Madkevich, L. E. Gorsh, "Enthalpy of formation of silicon disulfide".
- 1-10. Yu. G. Stenin, V. A. Titov, N. N. Zhamskaya, A. I. Titov and G. A. Kokovin, "Calorimetric and vapor pressure studies on the system: tin-iodine".
- 1-11. V. A. Titov, Yu. G. Stenin, N. N. Zhamskaya, A. A. Titov and G. A. Kokovin, "Calorimetric and vapor pressure studies on the system: tin-bromine".
- 1-12. N. M. Gamanovich, V. P. Glybin, G. I. Novikov, "Standard enthalpy of formation of ruthenium trichloride and oxychloride".
- 1-13. Yu. G. Blasov, P. P. Antonov and B. L. Seleznev, "Calorimetric determination of heat of formation of solid solution KF-RbF ".
- 1-14. Yu. S. Kozlov, N. A. Vatolin, O. V. Demidovich and Yu. B. Mal'tsev, "Calorimetric studies at high temperatures of liquid alloy of niobium".

1-15. Yu. S. Esin, S. P. Kolesnikov and P. V. Gel'd "Enthalpy of formation of Si-Cr alloy".
 1-16. O. I. Ostrovskii, A. Ya. Stomakhin, E. Ditrikh and V. A. Grigoryan, "Heats of solution of aluminum, silicon and titanium into Fe-Cr and Ni-Cr alloys".
 1-17. B. M. Mogutnov and N. G. Shaposhnikov, "Calorimetric studies on the decomposition of super-saturated solid solution in Ge-Co-Mo alloy".
 1-18. V. Zelenkevich, T. Krechmer and A. Zelenkevich (Poland), "Application of calorimetric method to the determination of chromium content in some kinds of highly alloyed steel".
 1-19. N. M. Aristova, L. A. Kucherenko and V. A. Trodhkina, "Calorimetric studies on the defect-formation process in solid solution Ni-Al".
 1-20. Yu. F. Yurchenko and E. N. Bludilin, "Enthalpy change of metals during formation of dislocation ensemble".
 1-21. K. S. Krasnov, "Thermodynamic calculations on energetically characteristic molecules and radicals of complex halides".
 1-22. A. I. Volkov, V. N. Yaglov and G. I. Novikov, "Standard enthalpies of formation of some phosphates".
 1-23. Yu. N. Matyushin, T. S. Kon'kova, E. A. Moroshnichenko, V. K. Isupov, N. N. Aleinikov, Yu. A. Lekelev, B. L. Korsunskii and F. I. Dubovichkii, "Enthalpies of formation of alkali metal perxenates".
 1-24. A. V. Suvorov, "Standard thermodynamic properties of some inorganic adducts".

Section II. Thermodynamics of organic compounds.

2-1. V. A. Aleshina, M. P. Kozina and G. L. Gal'chenko, "Enthalpies of formation of α -3,4- and β -3,4- epoxyoctane".
 2-2. N. D. Lebedeva, B. L. Ryadnenko, N. M. Kiseleva and L. F. Nazarova, "Enthalpies of formation of isopropenylacetylene and isopropenylacetylene".
 2-3. L. N. Dityat'eva and V. P. Kolesov, "Enthalpies of formation of complex ester of aliphatic perfluorocarboxylic acids".
 2-4. N. D. Lebedeva, S. L. Dobyichin, N. M. Gutner and V. L. Ryadnenko, "Approximate evaluation method for ΔH_{f298}° contribution in fluorinated alkanes by pair correlation".
 2-5. T. F. Vacil'eva, V. I. Kotov, "Heats of combustion of dimethyl amides and dimethylalkylamides".
 2-6. E. G. Kiparisova, T. A. Bykova and B. V. Lebedev, "Standard enthalpies of combustion and formation of glycolides and polyglycolides".
 2-7. E. P. Kirpichev, Yu. I. Rubtsov, T. V. Sorokina, L. V. Titov and S. B. Psikha, "Standard enthalpy of formation of tetraalkylammonium octahydratodiborate".
 2-8. S. N. Gadzhiev, V. A. Klyuchnikov, G. A. Lobanov, K. K. Kerimov, A. G. Kuznetsova and L. N. Martynovskaya, "Calorimetric combustion of organo-silicon compounds by the help of benzoyl peroxide".
 2-9. M. V. Lyubarskii and R. I. Smolyanets, "Enthalpies of combustion and formation of five-membered cyclic perfluorohydrocarbon".
 2-10. T. I. Gaidukova, I. S. Maslennikova and S. V. Shadskii, "Heats of formation of some coordination compounds with nitrogen-containing ligands".
 2-11. B. N. Oleinik, Yu. I. Aleksandrov, V. D. Mikina, V. Yu. Yushkevich and T. R. Osipova, "Present status and perspectives on the selection of standard reference materials for combustion calorimetry".
 2-12. R. M. Varushenko and V. A. Medvedev, "Calorimetric determination of enthalpy of vaporization of some cyclic hydrocarbon and fluorochloropropane".
 2-13. G. Ya. Kabs and G. N. Roganov, "Enthalpies of formation of chloroalkanes from calorimetric and equilibrium data".
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 2-15. T. N. Nesterova, E. N. Kovzel', S. Ya. Karaseva and A. M. Rozhnov, "Heats of reaction for hydrohalogenation of styrol and α -methylstyrol".
 2-16. S. V. Levanova, L. A. Shevtsova, V. M. Meged' and V. I. Shishinova, "Heats of formation of halogenoalkenes from equilibrium data".
 2-17. A. K. Bonetskaya, M. A. Kravchenko, D. Martin, Ts. N. Frenkel' and V. A. Pankratov, "Influences of solubility and structure of arylcyanates on the thermal effect and the rate of polycyclotrimerization of arylcyanates".
 2-18. E. Z. Fainberg, I. V. Zhmaeva, L. M. Levites, V. A. Polyak and A. V. Tokarev, "Calorimetric study of reaction kinetics of low temperature polycondensation".

2-19. I. D. Zenkov, E. Z. Fainberg, Yu. A. Sergeev and M. V. Shablygin, "Microcalorimetric study on the structure modification of 5(6)-amino-2-(p-aminophenyl)-benzimidazole".
 2-20. D. N. Gritsan, V. Kh. Dang and V. I. Larin, "Calorimetric and thermodynamic studies on solid phase reaction between tetramethylthiuramdisulfide and copper 2-, 4-, 5-trichlorophenolate".
 2-21. N. I. Kuz'nin, L. N. Pablinov, B. I. Zhizlyuk and A. S. Chegolya, "Thermodynamic method for investigation on the kinetics of interaction between aromatic amines and chloroanhydrides of aromatic acid".

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3-1. M. Kh. Karapet'yants, K. K. Blasenkov, S. G. Solov'eva and Bkhandari Achut Ram, "Thermodynamic studies on water-salt tertiary systems".
 3-2. V. P. Vasil'eva, E. V. Kozlovskii, A. I. Lytkin, G. L. Kokurina, V. A. Borodin and V. P. Lyman, "Thermodynamic properties of some zirconium and hafnium compounds".
 3-3. V. N. Vasil'eva, V. P. Vasil'ev and O. G. Raskova, "Thermodynamics of chromium compounds".
 3-4. K. P. Mishchenko, E. P. Prosviryakova and M. L. Klyueva, "Integral heat of interaction of sodium carbonate and magnesium hydroxide with sulfuric acid solution at 25°C".
 3-5. L. S. Lilich, L. V. Chernykh, N. E. Rumyantseva and L. D. Menovshchikova, "Effect of structure of electrolyte solution on the heat of solution".
 3-5a. G. A. Prik and B. E. Kozler, "On the regularity in the change of thermodynamic function of acetylacetate formation in aqueous solution".
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 3-8. N. V. Krivtsov, G. N. Shirokova and V. Ya. Rosolovskii, "Thermodynamic studies on complex aluminum nitrates".
 3-9. Yu. G. Prolov and L. K. Zhigunova, "Thermodynamic properties of aqueous solution of lithium, sodium and cesium sulfate at 10, 25 and 40°C".
 3-10. T. P. Storozhenko, E. I. Khanaev and Yu. A. Afanas'ev, "Enthalpies of interaction of rare earth metals with hydrofluoric acid".
 3-11. N. D. Topor, I. A. Kiseleva and L. V. Mel'chakova, "Determination of heat of solution of silicate and oxide type inorganic compounds by small scale method using Tian-Calvet high-temperature microcalorimeter".
 3-12. L. S. Lesnevskaya, M. B. Nikiforova and T. M. Domracheva, "Calorimetric determination of internal energy of gaseous solution in the critical region".
 3-13. A. F. Vorob'ev, S. N. Solov'ev and N. M. Privalova, "Correlation in thermodynamic properties and composition of solution in the system ethylformamide-formamide(Water)-NaI(KI)".
 3-14. A. F. Vorob'ev, A. S. Monakova, N. M. Privalova and L. S. Simirnova, "Correlation of enthalpy of solution and enthalpy of solvation of some 1-1 electrolytes in anhydrous methyl- and ethylformamide and in dimethylsulfoxide-water mixture with structure of the solution".
 3-15. G. V. Karpenko, G. M. Poltoratskii, N. N. Tsvetkova, B. A. Govepovski and I. V. Kranklish, "Calorimetric studies on the solution of alkali metals in aqueous organic solvents at 25°C".
 3-16. V. V. Aleksandrov, T. D. Panaetova, "Temperature dependence of enthalpy of solvation of ions from ammonium iodide in mixed solvents".
 3-17. V. V. Aleksandrov, T. A. Berezhnaya, B. N. Bezpalnyi and Yu. V. Sych, "Enthalpy of reaction of proton exchange reaction between water molecule and non-water components in mixed solvents".
 3-B. G. Bittrich, K. Gunzer (G.D.R.), "Enthalpies of mixing of olefines in binary systems".
 3-18. I. V. Egorova, A. M. Kolker, V. A. Zverev, Yu. V. Chistyakov, V. P. Korolev and A. I. B'yugin, "Polythermal investigation on thermodynamics of alkali halide solution in aqueous polyatomic alcohol, methanol and dimethylformamide".
 3-19. V. P. Afanas'ev, V. A. Kobenin, G. A. Krestov, G. A. Al'per, B. A. Zhukov, V. D. Smirnov, D. P. Kuz'nin and S. V. Semenovskii, "Calorimetric studies of dissolution of salts in non-aqueous medium of degassed solvent".
 3-20. G. A. Krestov, "Some correlations in the thermodynamics of non-aqueous electrolyte solutions".
 3-21. E. F. Ivanova and A. I. Kruglyak, "Comparison of thermodynamic quantities on dissolution of nitrates in ethylenediamine with calorimetric and

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- 3-22. V. I. Bubnov and V. P. Belousov, "Enthalpies of mixing of normal amines with water".
- 3-23. A. E. Tenenbaum, E. I. Scherbina, L. L. Gurarii and L. M. Kaporovskii, "Enthalpies of mixing and equilibria in binary and tertiary systems containing formamide in sulfolane".
- 3-24. B. G. Perelygin and Yu. A. Bival'tsev, "Calorimetric apparatus for the determination of enthalpy of solution of salts in non-aqueous and mixed solvents".
- 3-25. V. A. Vasilev and S. N. Novikov, "Heat capacities of aqueous solutions of IIIb metal halides with relation to singular hydration of the ions".
- 3-26. O. A. Devina, I. L. Khodakovskii, M. E. Efimov and V. A. Medvedev, "Thermodynamic determination of partial molar heat capacities and enthalpies of formation of $B(OH)_3$, $B(OH)_4^-$, $HgCl_2$, UO_2^{2+} , $UO_2(CO_3)_3^{4-}$ in the aqueous solution".
- 3-27. V. A. Latysheva, I. N. Andreeva, N. Babakulov, E. G. Grigor'eva and O. A. Kozhevnikov, "Heat capacities of aqueous electrolyte solutions with relation to specific property of cations of various metals".
- 3-28. N. B. Ivanov, N. P. Novoselov, "Heat capacities of solutions of some 1-1 electrolytes in dimethylsulfoxide by adiabatic liquid hermetic calorimeter".
- 3-29. L. V. Pychkov, P. S. Styazhkin and M. K. Fedorov, "Effects of temperature (up to 623 K) and pressure (up to 150 MPa) upon hydration of ions".
- 3-30. I. Borodenko and I. S. Galinker, "Heat Capacity and heat of solution of sodium and potassium iodide in water and methanole at 200 - 300°C".
- 3-31. P. M. Milyukov, N. B. Polenova and G. A. Kud'ykina, "Temperature effect on thermodynamic quantities of complex formation of alkali earth elements with diethylenetriamine pentadentate acid in aqueous solution".
- 3-32. V. M. Valene, V. V. Brazauskas, R. R. Lemaltatene and D. I. Brazauskene, "Thermodynamic studies on solutions of acidic metal-complex dyes of the type 1:2".
- 3-33. V. V. Sokolov, "Thermodynamic studies on the interaction of some hydroxy-containing compounds with copper-amine complex".
- 3-34. I. A. Dibrov, A. I. Ponakovskii, N. Yu. Uflyand and T. V. Grigor'eva, "Thermodynamic properties of nickel oxide electrode".
- 3-B. G. Olofsson (Sweden), "Thermodynamic quantities for dissociation process of methylanmonium ion between 273 and 398 K".
- 3-35. T. A. Andreeva, T. G. Golovanova and N. V. Bondarenko, "Integral enthalpy of solution of alkali and alkali earth metals at 25°C".
- 3-26. G. A. Krechetova, E. E. Shpil'rain and D. N. Kagan, "Calorimetric study on the properties of liquid metal solution with Na-K-Cs as components in wide temperature range".

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- 4-1. A. C. Kleyachko, T. R. Brueva, I. V. Mishin and A. M. Rubinstein, "Calorimetric study on adsorption of N-butylamine on type U aluminium zeolite".
- 4-2. B. V. Kuznetsov, S. N. Lanin, "Calorimetric study on adsorption of triethylamine on silica with various chemical surfaces".
- 4-3. R. K. Bekkerova and G. I. Berezin, "Heat capacity of adsorbed n-hexane in the second order phase transition region".
- 4-4. V. E. Polyakov, Yu. I. Tarasevich and I. G. Polyakova, "Heat of adsorption of water on kaolinite".
- 4-5. V. V. Brazauskas, A. L. Lyagas and D. I. Brazauskene, "Effect of structure of polycapromide fiber on the heat of wetting".
- 4-6. I. I. Osovskaya, Sh. M. Mirkamilov, K. P. Mishchenko and E. L. Akim, "Thermodynamic study on the wetting process of cellulose material with various organic solvents".
- 4-7. A. A. Dyatlov and V. E. Ostrovskii, "Differential heats of chemisorption of water, carbon dioxide and carbon monoxide on copper-chromium oxide catalyst".
- 4-8. V. A. Khalif, M. Yu. Kut'yev, E. L. Aptekar' and O. B. Krylov, "Differential heat of adsorption of acids on catalysts obtained by deposition".
- 4-A. S. Cherny, M. Smusek and F. Buzek (Czechoslovakia) "Calorimetric study on chemisorption of hydrocarbons on molybdenum".
- 4-B. S. Randzio (Poland), "Calorimetric investigation on adsorption of hydrogen and hydrogen sulfide on nickel thin film at 373 K".
- 4-9. Yu. D. Pankrat'ev, V. M. Turkov, M. Foris'e and Zh. L. Portefe, "Studies on strength of bonding of oxygen in surface layer of manganese dioxide by

calorimetric method".

- 4-10. S. V. Artamonov and G. D. Zakumabaeva, "Heat of chemisorption of hydrogen and oxygen on platinum black".
- 4-11. E. G. Igranova and V. E. Ostrovskii, "Calorimetric studies on heat of chemisorption of nitrogen on catalyst for ammonia synthesis".

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- 5-1. V. G. Ryabova, L. V. Gurvich, A. N. Khitrov, I. I. Nazarenko and E. M. Starovoitov, "Spectrophotometric determination of dissociation energy of alkali earth hydroxides".
- 5-2. E. M. Starovoitov, V. N. Belyaev, K. S. Krasnov and L. V. Gulvich, "Determination of bond dissociation energy in magnesium oxide and hydroxide molecules by flame spectrophotometric method".
- 5-3. Kh. S. L'opis, G. S. Marek, A. S. Izmailovich, S. I. Troyanov and V. I. Tsirel'nikov, "Enthalpies of formation of zirconium and hafnium lower halides".
- 5-4. A. V. Vishnyakov, V. I. Dubrovin and P. V. Kovtunenok, "Thermal dissociation of lead sulfate".
- 5-5. A. K. Baev, V. V. Zharov, Yu. L. Gubar', B. G. Gribov, I. L. Gaidym and B. I. Kozyrkin, "Thermodynamic studies on homologous alkyl coordination compounds of important sub-group elements".
- 5-6. L. D. Polyachenok, K. Nazarov, G. P. Dudchik and O. G. Polyachenok, "Thermodynamic properties of scandium chloride, evaluated by static vapor pressure measurement under the condition of accelerated reaction with quartz".
- 5-7. N. V. Bagarat'yan, E. N. Verkhoturov, M. K. Il'im, A. V. Makarov and O. T. Nikitin, "Thermodynamic study on alkali nitrates and nitrites (mass spectrometric study)".
- 5-8. A. G. Naliivaiko, L. Ya. Kris'ko and I. A. Ra'kovskii, "On the composition of vapor phase of lead molybdate".
- 5-9. L. S. Kudin, A. V. Gusarov and L. N. Gorokhov, "Polyatomic ion in potassium and cesium hydroxide vapor. Heats of formation of K_2OH^+ and CS_2OH^+ ".
- 5-10. L. V. Zharavleva, A. S. Alikhanyan and L. N. Sidorov, "Enthalpies of formation of $NaFeF_3$ and $NaFeF_4$ ".
- 5-11. A. M. Emel'yanov, A. V. Gusarov and L. N. Gorokhov, "Determination of dissociation energy of MOO from mass spectrometric measurement of equilibrium constant for isomolecular exchange reaction".
- 5-12. A. A. Nadirzade, L. D. Chanturishvili, I. S. Omiadze and G. G. Gvlesiani, "Thermodynamic properties of lanthanum and samarium oxywolframate".
- 5-13. L. I. Kholokhonova and T. N. Rezukhina, "Electronic structure of rare earth elements and thermodynamic properties of their trifluorides".
- 5-14. A. S. Abbasov, T. Kh. Azizov, F. M. Mustafaev, A. N. Mamedov and N. A. Alieva, "Thermodynamic properties of phases in the systems A^{III}-B, A^{III}-B^{IV} and A^I-B^{VI}".
- 5-15. V. A. Levitskii and Yu. Khekimov, "Thermodynamic properties of barium wolframate".

Section VI. Heat capacity, enthalpy and heat of phase transition.

- 6-1. V. V. Kandyba, E. N. Fomichev, A. D. Krivorochenko and I. V. Semin'ko, "Government special measuring instrument for the unit of specific heat of solids in the range 1800-2800 K".
- 6-2. L. S. Barkhatov and V. V. Koroleva, "Determination of heat of transition and enthalpy of yttrium oxide up to 3000 K".
- 6-3. L. S. Volovik, A. S. Bolgar, V. V. Pesenko, S. V. Drozdova, V. P. Promachenko and I. I. Timofeeva, "Enthalpy and heat capacity of chromium and wolfram sulfide".
- 6-4. A. S. Bolgar, V. F. Litvinenko, T. A. Baran and L. T. Domasevich, "Enthalpy and heat capacity of manganium carbide".
- 6-5. S. A. Kats, V. Ya. Chekhovskoi, N. B. Gorina, V. P. Polyakova and E. M. Savitskii, "Thermodynamic properties of rhodium around the melting point".
- 6-6. N. A. Landiya, G. D. Chachanidze, V. S. Varazashvili, T. A. Pavlenishvili and M. S. Tsarakhov, "Heat capacity of barium hexaferite in the range 50-1300 K".
- 6-7. G. D. Chachanidze, O. O. Dimitriadis, N. G. Lezhava, M. G. Khundadze, T. E. Machaladze and N. A. Landiya, "Enthalpies of magnetic transition of some ferrites".
- 6-8. N. E. Shmidt and V. B. Lazarev, "Heat capacity and phase transition of silver and thallium sulfate".
- 6-9. L. M. Volodkovich, G. S. Petrov, A. A. Kozyro, A. G. Gusakov, R. A. Vecher and A. A. Vecher, "Heat capacity and heat of transition of some fluorides".

6-10. G. I. Tsereteli and O. N. Trapeznikova, "Effect of crystallization temperature on the melting process of polyethyleneterephthalate".
 6-11. N. A. Korepanova and G. M. Orlova, "Heat capacity of chalcogenide glass in the glass transition region".
 6-12. D. Yu. Zhoqin and V. P. Kolesov, "Heat capacity in the range 9-300 K, phase transition and thermodynamic properties of perfluorotriethylamine".
 6-13. B. V. Lebedev, V. I. Milov and V. Ya. Lityagov, "Heat capacity and thermodynamic function of polytetrahydrofuran at 5-300 K".
 6-14. G. A. Shalpataya, V. E. Golbunov, K. S. Gavrichev, V. A. Sokolov, V. A. Palkin and N. N. Kuz'mina, "Heat capacity and excess (heat capacity) of hexaamine-platinum bromide hydrate".
 6-A. E. Westrum, Jr., J. Chada and D. Rodgers (U.S.A.), "Low temperature thermodynamics, thermochemistry and orientational disorder in the system acenaphthylene-acenaphthene".
 6-B. D. A. Markidan, M. D. Chepek and A. D. Byrkisala (Rumania), "Enthalpy and heat capacity of some organic substances".
 6-15. F. S. Rakhamenkulov, K. E. Mironov, K. S. Sukhovei, G. I. Frolova, V. N. Ikorskii and I. E. Paukov, "Thermodynamic properties at low temperatures and Shottky anomaly of rare earth monophosphides".
 6-16. V. E. Ganenko, A. M. Bykov, V. I. Markovich and F. A. Steingard, "Heat capacities of $\text{CuSiF}_6 \cdot 6\text{H}_2\text{O}$ and $\text{ZnSiF}_6 \cdot 6\text{H}_2\text{O}$ at temperatures 14 to 300 K".
 6-17. M. P. Orlova, Ya. A. Korolev and A. A. Petrovskaya, "Heat capacity of synthetic corundum at temperatures 5 to 273.15 K".
 6-18. A. G. Lashkov, V. G. Manzhelin and G. P. Chausov, "Heat capacity of solid methane in the temperature interval of 1.5-22 K".
 6-19. V. N. Kostryukov, O. P. Samorukov, N. Kh. Samorukova, A. M. Krasavin and A. B. Petrunin, "Low temperature heat capacity of triethyl boron".
 6-20. G. N. Danilenko, V. E. Danilenko, V. B. Lazarev, S. F. Marenkii and V. Ya. Shavchenko, "Thermodynamic properties of compounds of the type $\text{Me}^{\text{I}}\text{X}^{\text{V}}$ ".
 6-21. V. M. Lazarev, V. M. Zhdanov, V. A. Turdakina and Yu. L. Suponitskin, "Low temperature heat capacity of some rare earth molybdates".
 6-22. G. V. Burchalova, G. P. Kamelova, V. P. Nistratov, M. S. Sheiman and I. B. Rabinovich, "Low temperature heat capacity of diethylmercury".
 6-23. E. B. Amitin, Yu. A. Kovalevskaya and I. E. Paukov, "Singularity in the heat capacity of ammonium chloride in the tricritical point region".

Section VII. Thermodynamics of biological objects.

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 7-2. I. V. Sochava and T. V. Belopol'skaya, "Kinetic study on heat of denaturation of concentrated serum albumin solution".
 7-A. A. Zelenkevich, V. Zelenkevich, M. Novachik and T. Orlovski (Poland), "Thermal effect in the culture of human lymph".
 7-3. D. R. Monaselidze, Z. I. Chanchalashvili, G. N. Mgeladze, G. V. Madkhaqaladze and D. K. Chichishvili, "Microcalorimetric study on DNA of normal and swollen tissues under high concentration of Cs_2SO_4 ".
 7-4. T. V. Belopol'skaya, I. V. Sochava and O. I. Smirnova, "Study on the melting of liquid-crystalline structure of poly- γ -L-glutamate by dynamic calorimetry".
 7-5. E. F. Andreev, M. S. Vaganova, D. P. Lebedev and A. A. Tarasikov, "Microcalorimetry as a method for studying kinetics of surface culture".
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 7-7. Yu. L. Volyanskii, B. N. Demchuk and G. K. Pali, "Dynamics of thermogenesis of some microorganisms in the presence of antibacillus substance".
 7-B. J. D'Aszenzo (Italy), "Coordination compounds with biological interest: thermal properties of several compounds of saccharin with divalent metal ions".

7-c. E. Prosen and J. Kolbert (U.S.A.), "Microcalorimetric study on the origin of nutrition for driver of heart lythm".
 7-8. I. G. Minkevich and V. K. Eroshin, "Proportionality of heat evolution and intake of acid by microorganism culture".
 7-9. V. V. Koryagin, I. M. Chirkov and T. G. Gf'ishchenko, "Application of heat flux element DTP-02 for the measurement of microorganism thermogenesis".

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8-2. L. N. Gal'perin, Yu. R. Kolesov and A. S. Neganov, "Structural design and transient characteristics of a differential automatic calorimeter (DAK)".
 8-3. L. N. Gal'perin, Yu. R. Kolesov and A. S. Neganov, "Effect of non-identity of calorimeter cell on the parameter of differential calorimeter".
 8-4. L. I. Anatyshuk, B. N. Demchuk, O. Ya. Luste and Yu. F. Red'ko, "New thermoelectric effect and its use in microcalorimetry".
 8-5. I. A. Kleinman, M. G. Lifshits and I. S. Chupakhin, "Possibility and perspective of the use of pyroelectric temperature and heat flux sensing element in microcalorimetry. Use of electrocalorimetric element for producing a small temperature difference in microcalorimetry".
 8-6. A. A. Vichutinskii and A. G. Golikov, "Prototype microcalorimeter with sensitivity close to limit".
 8-7. Yu. A. Dreimanis, Yu. Ya. Mikel'son and A. A. Vichutinskii, "On the criterion of qualification of reaction calorimeter for solution".
 8-8. A. V. Sidorovid, V. P. Stadnik, G. V. Kotel'nikov and V. I. Goryachev, "Differential scanning microcalorimeter DSM-2 — apparatus for the determination of calorimetric spectrum of a substance".
 8-9. V. G. Karpov, G. S. Petrov, V. I. Solov'ev and D. A. Taits, "Diathermal calorimeter with thermoelectric semiconductor rectifier for thermochemical study".
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 8-11. V. I. Konov, P. E. Moroz and G. G. Muttik, "Continuous proportional compensation of positive and negative Joule heat effect in adsorption microcalorimeter".
 8-12. I. A. Dibrov, "Electrochemical calorimeter".
 8-13. V. D. Mikina, Yu. L. Gotlib, K. A. Khrustaleva, L. A. Novikova and B. N. Oleinik, "Government first measuring instrument for calorimetric unit and examination scheme in mixing and reaction calorimeter".
 8-14. E. E. Lavut, B. I. Timofeev and G. L. Gal'chenko, "Complete calorimeter with microfurnace in a bomb".
 8-15. S. M. Kalif-kalif and M. S. Lizogub, "A way to complete electromeasuring method, applied to precision calorimetry".
 8-16. B. Ya. Chekhovskii, "Effect of temperature field in massive calorimeter on the result of measurement".
 8-17. S. N. Ul'yanov, D. N. Kagan, E. E. Shpil'rain, "Pulse differentiation method for measuring heat capacity of barium, strontium and potassium at 2000°C".
 8-18. V. N. Naumov and V. V. Nogteva, "Apparatus for measuring heat capacity in the temperature range 1.7-300 K".
 8-19. V. E. Zinov'ev, A. D. Ivliev, I. G. Kolshunov and P. V. Gel'd, "Heat capacity measurement of metals by slow temperature wave".
 8-B. M. Kamin'skii and V. Zelenkevich (Poland), "Dynamic properties of calorimeter for determination of hydration heat of cements".
 8-20. R. T. Sagatelian and L. A. Aksenova, "Calorimeter for measuring heat of adsorption of gases and vapors at 300-700 K".
 8-21. Yu. N. Matyushin, T. S. Kon'kova, E. A. Mirosnichenko, B. P. Larionov, A. B. Vorob'ev and Yu. A. Lebedev, "Problems on the calibration of reaction calorimeter".
 8-22. G. K. Tsol, A. I. Logasheva and N. D. Topor, "Determination of vaporization heat of pure substances and aqueous solution of salt".