

Events

5TH ALL-UNION CONFERENCE ON THERMAL ANALYSIS, USSR, 1973

The 5th All-Union Conference on Thermal Analysis was held in Novosibirsk, 3rd to 5th July 1973. The theses of the lectures were published by "Nauka" publishing house, Moscow 1973, in Russian (Editor: A. V. LAZAREV).

Plenary lectures

Thermography in the investigation of silicates

E. K. KELER

(Institute for Silicate Chemistry, Acad. Sci. USSR)

The position and tasks of high temperature thermal analysis

YU. A. KOCHERZHINSKII

(Institute of Metallophysics, Acad. Sci. Ukrainian SSR)

The development of the methods and apparatuses of thermal analysis

I. B. KUDINOV

(Institute for General and Inorganic Chemistry "N. S. Kurnakov", Acad. Sci. USSR)

Thermal analysis of natural salts

I. N. LEPESHKOV, N. K. SEMENDYAEVA

(Institute for General and Inorganic Chemistry "N. S. Kurnakov", Acad. Sci. USSR)

Mathematical treatment of differential thermal analysis

O. P. MCHEDLOV-PETROSYAN, V. YU. DUBNICKII, V. L. CHERNYAVSKII

(Institute for Engineers of Train Transport "S. M. Kirov", Kharkov, and "Promstoini-proekt", Kharkov)

Thermal analysis in the conditions of automatical experiments

A. V. NIKOLAEV, F. YA. GIMEL'SHTEIN, V. M. ZISLIN

(Institute for Inorganic Chemistry, Siberian Dept., Acad. Sci. USSR)

Thermal analysis of co-ordinative compounds

A. V. NIKOLAEV, V. A. LOGVINENKO

(Institute for Inorganic Chemistry, Siberian Dept., Acad. Sci. USSR)

"Differential thermal analysis of organic systems" (position and prospects)

G. B. RAVICH, V. Z. KOLODYAZHNYI

(Institute for General and Inorganic Chemistry "N. S. Kurnakov", Acad. Sci. USSR)

Some questions of the thermal analysis of crystallizing polymers

B. YA. TEITELBAUM

(Institute for Organic and Physical Chemistry "A. E. Arbuzov", Kazan' Section, Acad. Sci. USSR, Kazan')

Methodology and apparatuses

A thermographic equipment for the investigation of "solid-liquid" processes on raised pressures

K. M. AKHMETOV, M. Z. UGORETS, K. T. RUSTEMBEKOV
(Institute for Chemical Metallurgy, Acad. Sci. Kazakh SSR)

An electro-thermographic method for the investigation of heterogeneous catalytic reaction kinetics

V. V. BARELKO, YU. E. VOLODIN
(Institute for Chemical Physics, Acad. Sci. USSR, Dept. Chernogolovka)

Description of extreme parts of DTA curves and calculation of the of heat effects

L. V. BARKOVA, E. T. GEVORKYAN
(All-Union Sci. Res. Institute for Electro-Mechanics, Dept. Istra)

Automatic gas burettes developed at the KSU and possibilities of their use in thermal analysis

L. G. BERG, Z. M. LATYPOV, V. P. SAVEL'EV
(State University, Kazan')

The effect of the gas phase in the quantitative thermal analysis of dispersed materials. I. Static gas surroundings

L. G. BERG, V. P. EGUNOV, A. D. KIAYEV, M. I. KOZHUKHOV
(Polytechnical Institute, Kuibyshev)

The effect of the gas phase in the quantitative thermal analysis of dispersed materials. II. Flowing gas surroundings

L. G. BERG, V. P. EGUNOV, M. I. KOZHUKHOV, A. D. KIYAEV
(Polytechnical Institute, Kuibyshev)

Equipment for phase transition heat determination by the DTA method and its use in the investigation of some amalgams

A. B. VALKO, N. D. OMAROVA, L. M. FILIPPOVA, A. I. ZEBREVA
(State University of the Kazakh SSR "S. M. Kirov")

Photocompensation thermobalances

YA. V. VASIL'EV, V. A. GERASIMOV, YU. A. SERGIENKO
(Institute for Inorganic Chemistry, Siberian Dept., Acad. Sci. USSR)

Use of quantitative thermal analysis for the investigation of thermal properties of alloys

A. A. VECHER, L. A. MECHKOVSKII, A. A. SAVITSKII
(Belorussian State University)

Formation heat determination for liquid and solid alloys by the quantitative thermal analysis method

A. A. VECHER, L. A. MECHKOVSKII, A. S. SKOROPANOV
(Belorussian State University)

Theoretical investigation of the heating curve method for a binary system in the one-variable field

N. K. VOSKRESENSKAYA, I. B. MARKINA, G. P. BUDOVA
(Institute for General and Inorganic Chemistry "N. S. Kurnakov", Acad. Sci. USSR)

Precision supplies for linear heating

L. N. GAL'PERIN, YU. R. KOLESOV, L. B. MASHKINOV
(Section of the Institute for Chemical Physics, Acad. Sci. USSR)

Methods for the complex investigation of metals and alloys by rapid heating and cooling

V. N. GRIDNEV, YU. A. MESHKOV, S. P. OSHKADEROV, R. V. TELEVICH
(Institute for Metallophysics, Acad. Sci. USSR)

DTA equipment with regulated baseline

V. P. EGUNOV, YU. V. AFANAS'EV
(Polytechnical Institute, Kuibyshev)

Differential thermal analysis of solids in gas flow, under raised pressures

M. P. ZLOBINA, V. I. POLYAKOV, R. V. CHESNOKOVA, A. M. ALEKSEEV
("GIAP", Moscow)

Statistical thermal analysis and its use in the investigation of composition diagrams and phase transformation kinetics

B. I. KIDAROV, P. L. MITNITSKII
(Institute for the Physics of Semi-Conductors, Siberian Dept., Acad. Sci. USSR)

High temperature equipment to a diffractometer for the simultaneous registration of diffraction and thermographic curves

B. M. KOBTSEV, G. O. PILOYAN
(Institute for the Geology of Ore Quarries, Petrography, Mineralogy and Geochemistry,
Acad. Sci. USSR)

A method for the investigation of polymorphic transformations of small heat effects

P. S. KONDRASHOVA
(State Institute of Colour Metals, Moscow)

The mass-spectrometric thermal analysis method (MTA) with the aid of a time-of-flight mass-spectrometer

O. P. KORBEINICHEV, G. A. ANISIFOROV
(Institute of Catalysis, Siberian Dept., Acad. Sci. USSR)

High temperature differential thermal analyzer VDTA-7

YU. A. KOCHERZHINSKII, N. A. BEZSHAN'KO, V. I. VASILENKO, A. D. EVPREV,
V. G. EPIFANOV, A. V. ZAVILINSKII, V. E. IS'YANOV, B. G. NAUMCHENKO, A. V. PUGACH,
L. V. REMIZOSKII, V. P. SKVORCHUK, V. G. SHESTOPALOV, A. E. SHISHKIN
(Institute of Metallophysics, Acad. Sci. Ukrainian SSR, and "OKB IMF", Acad. Sci.
Ukrainian SSR)

The differential thermal barometry method used for the study of thermal dehydration and complicated dissociation processes

V. N. MAKATUN, V. V. PECHKOVSKII, R. YA. MEL'NIKOVA
(Belorussian Institute of Technology "S. M. Kirov")

Use of thermal analysis for determination of the heat of mixing

N. N. MINENKO, G. I. BATALIN
(State University, Kiev)

Analysis of the scale inhomogeneity of peak areas

N. A. NEDUMOV
(TsNIISK "V. A. Kucherenko" Gosstroya, SSSR)

Quantitative DTA of processes due to the changing effect of chemical reagents

N. A. NEDUMOV, V. A. DUDKO, A. LAVROV, E. S. MUZALEV, V. V. YARKINA, G. F. PAVLOV,
I. V. TANANAEV
(TsNIISK "V. A. Kucherenko" Gosstroya, SSSR)

DTA method for physical-chemical processes due to the changing effect of chemical reagents

N. A. NEDUMOV, N. P. SHLENKOV, V. A. DEDKO, E. S. MUZALEV, G. F. PAVLOV, B. V.
STARIKOV
(TsNIISK "V. A. KUCHERENKO" Gosstroya, SSSR)

Registration of thermograms in a large range of temperature with a given interval of the compensation

A. A. OStan'KOVICH, N. K. EFIMENKO, G. S. LITVAK
(Institute of Catalysis, Siberian Dept., Acad. Sci. USSR)

Equipment for thermo-optical analysis with an objective registration of heating curves

A. A. OStan'KOVICH, N. K. EFIMENKO, G. S. LITVAK
(Institute of Catalysis, Siberian Dept., Acad. Sci. USSR)

A DTA method without any inert material

G. F. PAVLOV
(TsNIISK "V. A. Kucherenko" Gosstroya, SSSR)

DTA and thermogravimetric analysis of materials in the conditions of solar furnaces

G. F. PAVLOV, V. A. KOPEIKIN, N. A. NEDUMOV, V. S. DVERNYAKOV, V. V. PASICHNYI,
I. N. FRANTSEVICH, R. M. SAPOZHNIKOV, V. N. SEREGIN, N. A. FROLOV
(TsNIISK "V. A. Kucherenko" Gosstroya, USSR, and Institute for the Problems of the
Knowledge of Materials, Acad. Sci. Ukrainian SSR, and IGEM, Acad. Sci. USSR)

Thermographic determination of the heat effects of NH_4NO_3 polymorphic transformations

G. O. PILOYAN, O. S. NOVIKOVA, O. I. GUSEVA
Institute for Geology of Ore Quarries, Petrography, Mineralogy and Geochemistry, Acad.
Sci. USSR, and State Institute of the Nitrogen Industry)

Equipment for the investigation of the thermal decomposition of compounds with the "Lantron" complex DTA method

G. B. RAVICH, V. Z. KOLODYAZHNYI, I. I. SHAMONOV, A. I. ZHEMARKIN
(Institute for General and Inorganic Chemistry "N. S. Kurnakov", Acad. Sci. USSR)

Some results with the aid of the "Lantron" apparatus in the study of chemical reactions

G. B. RAVICH, V. Z. KOLODYAZHNYI, I. I. SHAMONOV, A. I. ZHEMARKIN
(Institute for General and Inorganic Chemistry "N. S. Kurnakov", Acad. Sci. USSR)

Automatical gas volumeter "DAGV-70-2"

L. S. SEDLOVICH, V. M. NEIMARK, I. B. KUDINOV
(Central Constructional Bureau for Producing Special Instruments, Acad. Sci. USSR,
and Institute for General and Inorganic Chemistry "N. S. Kurnakov", Acad. Sci. USSR)

Complex investigation of decomposition reactions of solids by thermal and high-frequency methods

V. F. UST'-KACHKINTSHEV, D. R. VERZHBITSKIL, T. M. DONSKIKH
(State University, Perm)

Equipment for high speed differential thermal analysis for the investigation of the transformation of ammonium nitrate

A. M. FILONOV, O. S. NOVIKOVA, YU. V. TSEKHANSKAYA
(State Institute of the Nitrogen Industry)

Thermal analysis and its interaction with the dielectric constant, electric conductivity and magnetic characteristics of salts

V. G. SHEVCHUK, V. N. YUKHIMETS
(Institute for Building Engineering, Poltava)

A simple apparatus for differential thermal analysis in controlled gas surroundings

A. V. SHLYKOV
(All-Union Sci. Res. Institute of Building Materials and Constructions)

Application of the "heat bridge" method for thermodynamical investigations

M. SH. YAGFAROV

(Institute for Organic and Physical Chemistry "A. E. Arbuzov", Kazan' Section, Acad. Sci. USSR, Kazan')

*Non-isothermal kinetics**Calculation of kinetic parameters by a computer on the basis of thermographic analysis*

N. P. BELIK, L. N. USHERENKO, M. B. FIALKO, V. N. KUMOK

(Institute for Applied Mathematics and Mechanics, State University, Tomsk)

A program for the evaluation of kinetic parameters of decomposition processes on the basis of dynamic thermogravimetric analysis

V. A. BYL'EV, A. E. TAVRIN

(Institute for Organic and Physical Chemistry "A. E. Arbuzov", Kazan' Section, Acad. Sci. USSR, Kazan')

Some problems of the theory and practice of the derivatographic investigations on the kinetics and mechanism of the solid phase synthesis of alkaline-earth molybdates

S. F. VEKSLER, V. M. ZHUKOVSKII, Ts. M. RAITBURD

(Ural State University, GIN, Acad. Sci. USSR)

Numerical analysis of kinetic curves in thermography

V. T. GONTKOVSKAYA, V. V. GARZYKIN

(Dept. of the Institute for Chemical Physics, Acad. Sci. USSR)

Study of the kinetics of chemical changes by means of a Derivatograph in isothermal conditions

V. M. GORBACHEV, V. E. FEDOROV, V. A. SHESTAKOV

(Institute for Inorganic Chemistry, Siberian Dept., Acad. Sci. USSR)

Study of the heterogeneous reaction kinetics with the electrothermographic method

YU. M. GRIGOR'EV, A. G. MERZHANOV, YU. A. GAL'CHENKO

(Dept. of Institute for Chemical Physics, Acad. Sci. USSR)

Activation energy determination for solid phase reactions in mixtures of salts with the DTA method

N. I. LISOV, G. O. PILOYAN, N. P. BURMISTROVA

(State University, Kazan', and IGEM, Acad. Sci. USSR)

Use of a flow reactor for the study of non-isothermal thermolysis kinetics with the evolution of gas phase

V. A. LOGVINENKO, L. I. MYACHINA

(Institute for Inorganic Chemistry, Siberian Dept., Acad. Sci. USSR, Novosibirsk)

Determination of the kinetic constants of endothermic decomposition reactions of solids on the basis of weight loss curves on a Derivatograph

L. I. TOLOKONNIKOVA, N. D. TOPOR, B. M. KADENATSI, V. A. MOSHKINA

(Institute for Chemical Physics, Acad. Sci. USSR, and Institute for Mineralogy, Faculty of Geology of the State University, Moscow)

On some specialities of the kinetic treatment of thermal analysis data obtained in non-isothermal conditions

A. V. SHKARIN, G. S. LITVAK, O. P. KORBEINICHEV, O. V. ANISIMOVA, G. I. ANISIFOROV

(Institute for Catalysis, Siberian Dept., Acad. Sci. USSR, and Section of Catalysts IREA, Novosibirsk)

*Inorganic materials**Heating curves of the association product of aromatic amines with cadmium iodide*

A. V. ABLOV, V. YA. IVANOVA

(Institute of Chemistry, Acad. Sci. Moldavian SSR)

Thermographic study of the ageing process of aluminium hydroxide

R. A. ABDURAKHMANOV

(Evening Section of the Tashkent Polytechnical Institute, Bukhara)

Thermal analysis of the system based on alkaline metal chlorides and sulphates

E. K. AKOPOV, ZH. G. MOISEENKO

(Polytechnical Institute, Krasnodar)

On the polymorphic modifications of sodium selenite

G. L. AKHMETOVA, S. F. AKHMETOV, V. G. SHKODIN

(All-Union Sci. Res. Institute for the Synthesis of Mineral Raw Materials)

On the nature of the phases of the γ -Bi₂O₃ structure (Silenite-phases)

V. N. BATOG, L. A. GALUNIN, V. I. PAKHOMOV, G. M. SAFFONOV, P. M. FEDOROV

(Institute for General and Inorganic Chemistry "N. S. Kurnakov", Acad. Sci. USSR)

DTA studies on the part of unstable intermediate phases in solid state reaction processes

L. G. BERG, N. P. BURMISTROVA, N. I. LISOV

(State University, Kazan')

Thermal analysis study of ME^IPO₃-E^{III}₂O₃ system

S. I. BERUL', N. V. SIZOVA, N. I. GRISHINA

(Institute for General and Inorganic Chemistry "N. S. Kurnakov", Acad. Sci. USSR)

Thermographic investigation of rare-earth metal carboxylates

L. N. BONDAREVA, L. M. VDOVINA, V. E. LOGINOVA

(Institute for Inorganic Chemistry, State University, Saratov)

Thermographic analysis of aluminate formation reactions

V. N. BOROVNIKOV, S. YA. GORDEEV, V. N. MIKHIEV

(Chemical Technological Institute, Ivanovsk)

Investigation of the reaction during the interaction of some solid metal oxides and halogenides

N. P. BURMISTROVA, R. G. FITSEVA

(State University, Kazan')

Investigations on the crystallization of iron-carbon and iron-carbon-sulphur melt systems with the addition of salts

B. P. BURYLEV, ZH. E. SLEPTSOV, E. M. RYBALKIN

(Polytechnical Institute, Krasnodar)

Phase composition and state diagrams of the M₂O-V₂O₅-V₂O₄ system

V. L. VOLKOV, L. L. SURAT, A. A. FOTIEV

(Institute of Chemistry, UNTs, Acad. Sci. USSR)

Investigation of the thermal stability of vanadile ammonia associates

N. I. VOROB'EV, V. V. PECHKOVSKII, L. V. KOBETS

(Belorussian Technological Institute "S. M. Kirov")

Investigation of the crystallization of solid solutions of ZrO₂ and HfO₂ basis obtained by the co-precipitation method

V. B. GLUSHKOVA, L. G. SHCHERBAKOVA, E. K. KELER

(Institute for Silicate Chemistry, Acad. Sci. USSR, and Institute of the Chemical Kinetics, State University, Moscow)

Thermal stability of alkaline-earth phosphates and fluorides

A. F. GOLOTA, A. A. GLAGOLEVA, V. P. POPOV, V. T. REDCHENKO, A. B. KOLODEZEV,
YU. A. ANFIMOV
(All-Union Sci. Res. Institute of Luminophores)

Dependence of the thermal stability of metal chalcogenides on the method of their production

A. A. GLAGOLEVA, V. P. POPOV, V. T. REDCHENKO, YU. A. ANFIMOV, A. B. KOLODEZEV
(All-Union Sci. Res. Institute of Luminophores)

Thermal investigations on the formation of chrome phosphates

A. I. DIMANTE, Z. A. KONSTANT, A. YA. VAIVAD
(Institute for Inorganic Chemistry, Acad. Sci. Lettish SSR)

Derivatographic studies on the kinetics and mechanism during oxidation in air of some titane compounds of high melting point

V. A. ZHILYAIEV, G. P. SHVEIKIN, V. D. LYUBIMOV, S. I. ALYAMOVSKII
(Institute of Chemistry UNTs, Acad. Sci. USSR)

Investigations on the thermal dissociation of platinum tetrahalogenides by thermal analysis methods

S. V. ZEMSKOV, Z. I. ZASORINA, K. A. GRIGOROVA, V. M. GORBACHEV, V. A. SHESTAKOV,
A. I. SUBOCHEV
(Institute for Inorganic Chemistry, Siberian Dept., Acad. Sci. USSR)

Thermographic investigation and comparison characteristics of the phases in Ln_2O_3 - WO_3 (Pr, Tb) systems

M. I. IVANOVA, E. M. REZNIK
(Institute for General and Inorganic Chemistry "N. S. Kurnakov", Acad. Sci. USSR)

Investigations on the thermal stability of some adducts of bis-(acetyl-acetonato)- Ni^{II} with Lewis bases

I. K. IGUMENOV, V. M. GORBACHEV, A. N. POPOV
(Institute for Inorganic Chemistry, Siberian Dept., Acad. Sci. USSR)

Interaction between water-free rare-earth iodides and alkaline iodides

N. M. IGUMOVA, D. V. DROBOT
(Institute for Fine Chemical Technology "M. V. Lomonosov", Moscow)

Investigation of the $\text{LiOH}-\text{RbOH}$ and $\text{LiOH}-\text{CsOH}$ systems with a thermal analysis method

L. S. ITKINA, S. M. PORTNOVA, S. E. OSTROVITYANOVA
(Institute for General and Inorganic Chemistry "N. S. Kurnakov", Acad. Sci. USSR)

On the thermographic investigation of the oxide-sulphide systems of heavy colour metals

Z. K. KAIRBAEVA, A. F. KUROCHKIN, I. A. ONAEV, S. M. KOZHAKHMETOV, T. M. SULEI-
MENOV, S. T. AKCHULAKOVA
(Institute for Metallurgy and Enrichment, Acad. Sci. Kazakh SSR)

Studies on the thermal stability of some alkaline and alkaline-earth perxenates

I. S. KIRIN, V. YA. MISHIN, V. K. ISUPOV, E. M. RUBTSOV, YU. K. GUSEV
(Institute for Nuclear Physics "B. P. Konstantinov", Acad. Sci. USSR)

Thermal analysis of once substituted ammonium phosphates

Z. A. KONSTANT, Z. YA. KANAPE, L. ZH. ATSTINYA, A. I. DIMANTE, A. P. DINDUNE, A. YA.
VAIVAD
(Institute for Inorganic Chemistry, Acad. Sci. Lettish SSR)

DTA of metal systems of high melting point

YU. A. KOCHERZHINSKII, O. G. KULIK, E. A. SHISKIN, L. M. YUPKO, V. V. PET'KOV
(Institute of Metallophysics, Acad. Sci. Ukrainian SSR)

Investigation of the dehydration processes of alkaline-earth molybdates

V. I. KRIVOBOK, M. V. MOKHOSOEV, T. T. GOT'MANOVA, G. YA. SAMSONOVA, V. D. KOLOTYUK
(State University, Donetsk)

Thermal analysis of aluminium and gallium tellurates

A. A. KUDINOVA, N. K. BOL'SHAKOVA
(Institute for the Building of Chemical Machines, Moscow)

Thermographic investigations on the formation of solid solutions in the Y_2O_3 - Pr_2O_x system

A. K. KUZNETSOV, P. A. TIKHONOV, E. K. KELER
(Institute for Silicate Chemistry "I. V. Grebenshchikov", Acad. Sci. USSR)

Study on the phase diagrams of alloys of the A^I -Sb-S(Se) ternary system by the cuts $A_2S(Se)$ - $Sb_2S_3(Se_3)$ (A^I -alkaline metal) with the aid of the DTA and X-ray methods

V. B. LAZAREV, A. V. SALOV, S. I. BERUL', A. S. KANISHCHEVA, V. G. KUZNETSOV
(Institute for General and Inorganic Chemistry "N. S. Kurnakov", Acad. Sci. USSR)

Investigation on the thermal dissociation of metal chelates with bi-dental sulphur-containing ligands

S. V. LARIONOV, L. A. KOSAREVA, L. A. LATRINA, V. E. FEDOROV, V. M. SHUL'MAN
(Institute for Inorganic Chemistry, Siberian Dept., Acad. Sci. USSR)

Thermal reaction of co-ordinative compounds. Kinetics of solid phase processes of water ligand substitution by organic ligands in aquo-acido complexes

V. A. LOGVINENKO, A. V. NIKOLAEV, L. I. MYACHINA
(Institute for Inorganic Chemistry, Siberian Dept., Acad. Sci. USSR)

Thermographic investigation of some rare-earth molybdates

G. V. LISANOVA, L. Z. GOKHMAN, M. G. KOMOVA
(Institute for General and Inorganic Chemistry "N. S. Kurnakov", Acad. Sci. USSR)

Thermal analysis and X-ray diffraction studies on the catalysts of low temperature carbonic oxide conversion

B. G. LYUDKOVSKAYA, A. YA. VOLYNKINA, T. A. SEMENOVA, M. I. MARKINA, O. G. BUDKINA
(GIAP, Moscow)

Thermal analysis of silver metaphosphate-alkaline metaphosphate systems

I. V. MARDIROSOVA, M. A. SAVENKOVA
(Institute of Building Engineering, Rostov, and State University, Rostov)

Studies on the thermo-oxidative stability of some compounds of high melting point

T. E. MILLER, I. A. STENGREVITSA, YA. P. GRABIS, I. V. ZVIEDZE
(Institute for Inorganic Chemistry, Acad. Sci. Lettish SSR)

Investigations on phase equilibria in metal-oxygen-halogen systems (Me-Mo, W, Re)

L. G. MIKHAILOVA, D. V. DROBOT, A. V. NIKOLAEV, E. A. SAPRANOVA
(Institute for Fine Chemical Technology "M. V. Lomonosov", Moscow)

Thermogravimetric investigations on the interaction of some rare-earth oxides with ammonium bifluoride

M. A. MIKHAILOVA, D. G. EPOV, G. P. SHCHETININA
(Institute of Chemistry DVNTs, Acad. Sci. USSR)

Thermal stability of metal diphthalocyanates and the "tetrad" effect in the lanthanide series

P. N. MOSKALEV, I. S. KIRIN, V. YA. MISHIN, E. M. RUBISOV
(Institute for Nuclear Physics "B. P. Konstantinov", Acad. Sci. USSR, Leningrad)

The thermal stability of the interaction products of SiF₄ and HF with aromatic amines

V. I. NIKITIN, A. A. ENNAN, B. M. KATS, A. N. CHOBOTAREV, L. V. OSTAPCHUK, V. P. PETROSYAN
(State University "I. I. Mechnikov", Odessa)

DTA investigation of mercury containing alloys

M. V. NOSEK, G. V. MALUYTIN
(Institute of Chemical Sciences, Acad. Sci. Kazakh SSR)

Thermal analysis investigation on the formation of α -FeO(OH)— α -Fe₂O₃ catalytic system

A. A. OStan'KOVICH, R. A. BUYANOV, O. P. KRIVORUCHKO
(Institute of Catalysis, Siberian Dept., Acad. Sci. USSR)

DTA of processes in some phosphate materials

G. F. PAVLOV, V. A. KOPEIKIN, E. E. KISELEVA, A. V. LAVROV, N. A. NEDUMOV, I. V. TANANAEV, V. V. YARKINA
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Thermal analysis of oxide materials based on zirconium dioxide

S. F. PAL'GUEV, I. G. ROZANOV, L. N. FOMINA, V. N. STREKALOVSKII, A. I. IOFFE
(Institute of Electrochemistry UNTs, Acad. Sci. USSR)

Studies on the oxidation of turmaline in the range of 200—1100°

YU. D. PERFIL'EV, N. V. GORELIKOVA, A. M. BABESHKIN
(State University "M. V. Lomonosov", Moscow, Faculty of Chemistry, Chair of Radiochemistry, and Far-East Institute of Geology DVNTs, Acad. Sci. USSR)

Conditions for the DTA of tellurium oxide containing samples

S. S. PLOTKIN, V. E. PLYUSHCHEV
(Institute for Fine Chemical Technology "M. V. Lomonosov", Moscow)

Investigations of fusibility diagrams of systems consisting of alkaline metal and yttrium perhenates

V. E. PLYUSHCHEV, V. M. AMOSOV, A. B. IZOTOVA
(Institute for Fine Chemical Technology "M. V. Lomonosov", Moscow)

Thermal behaviour of sulphates. Zr(SO₄)₂ · 4H₂O and Hf(SO₄)₂ · 4H₂O

R. A. POPOVA, M. M. GODNEVA, D. L. MOTOV, R. F. OKHRIMENKO, D. L. ROGACHEV
(Institute of Chemistry, Kol'skii Section, Acad. Sci. USSR)

The investigation of low temperature phase transitions in aqueous solutions of some alkaline metal sulphates

I. S. RASSONSKAYA, I. B. KUDINOV
(Institute for General and Inorganic Chemistry "N. S. Kurnakov", Acad. Sci. USSR)

DTA investigations on the phase transformations in binary systems consisting of rubidium or cesium sulphate and cadmium sulphate

I. S. RASSONSKAYA, N. K. SEMENDYAEVA
(Institute for General and Inorganic Chemistry "N. S. Kurnakov", Acad. Sci. USSR)

Investigation on the conditions of the formation and the thermal stability of binary chromates of alkaline and rare-earth elements

M. V. SAVEL'eva, T. I. KUVINA, I. V. SHAKNO, V. E. PLYUSHCHEV
(Institute for Fine Chemical Technology "M. V. Lomonosov", Moscow)

The phase diagram of the Eu—S system

O. A. SADOVSKAYA, A. A. ELISEEV, G. M. SAFFONOV
(Institute for General and Inorganic Chemistry "N. S. Kurnakov", Acad. Sci. USSR)

The effect of the chemical nature of the cations and the ligand on the thermal stability of cyano-iron complexes

G. B. SEIFER, T. A. TARASOVA, S. O. SAMOILOVA
(Institute for General and Inorganic Chemistry, Acad. Sci. USSR)

Thermal analysis as a method for the investigation of the ligand exchange in solid phase

G. B. SEIFER, YU. YA. KARITONOV, N. A. VERENDYAKINA, Z. A. TARASOVA
(Institute for General and Inorganic Chemistry, Acad. Sci. USSR, and Mordovskii State University, Saransk)

Thermographic investigation of systems of bismuthous oxide and MeO, Me₂O₃, Me₂O₅, MeO₃

V. M. SKORIKOV, E. I. SPERANSKAYA, A. V. KOISOV, V. A. KUTVITSKII, G. M. BALAGINA
(Institute for General and Inorganic Chemistry "N. S. Kurnakov", Acad. Sci. USSR)

Thermography of some metal hydroxides

S. I. SMYSHLYAEV, E. P. TSYMBAL, L. A. SIMONOVA, A. G. TARASENKO, S. G. RUDAKOVA
(Polytechnical Institute, Krasnodar)

Investigation of the state diagrams of some binary systems on the basis of gallium and chrome

I. T. SRYVALIN, V. N. DANILIN, P. E. SHURAI, A. F. YARVOI
(Polytechnical Institute, Krasnodar)

Investigations on the mechanism of hydrothermal dehydration of copper hydroxide

M. Z. UGORETS, D. K. ARGINBAEV, E. A. BUKETOV, K. M. AKHMETOV
(Institute for Chemical Metallurgy, Acad. Sci. Kazakh SSR)

Thermographic investigations on the interaction of elemental sulphur, selenium and tellurium with alkaline solutions

M. Z. UGORETS, K. T. RUSTEMBEKOV, E. A. BUKETOV, K. M. AKHMETOV
(Institute for Chemical Metallurgy, Acad. Sci. Kazakh SSR)

Thermographic investigations of some complexones and rare-earth metal complexonates

V. P. KHRAMOV, V. G. EGOROVA, G. A. ALIEV, A. F. BOL'SHAKOV, A. B. IVANOV, A. A. KOL'TSOV, I. G. PANCHENKO, A. L. BOGACHEVA
(Institute for the Mechanization of the Agriculture "M. I. Kalinin")

Thermographic investigation of potassium and rubidium superoxides

A. B. TSENTSIPER, T. I. ROGOZHNIKOVA, M. S. DOBROLYUBOVA
(Institute for General and Inorganic Chemistry "N. S. Kurnakov", Acad. Sci. USSR)

Studies on the thermal stability of the crystal hydrates of rare-earth metal, yttrium and scandium periodates

N. B. SHAMRAI, M. B. BARFOLOMEEV, V. E. PLYUSHCHEV
(Institute for Fine Chemical Technology "M. V. Lomonosov", Moscow)

Thermographic investigation of ruthenium, rhodium and palladium in air

I. S. SHAPLYGIN, V. B. LAZAREV
(Institute for General and Inorganic Chemistry, Acad. Sci. USSR)

Part and possibilities of thermal analysis in the investigation of the complex compounds of boron

E. M. SHVARTS, A. A. TERANDA, A. A. VEGNERE, P. N. TEL'ZHENSKAYA, V. G. KALACHEVA, A. YA. PUTNIN', R. G. BELOUSOVA, A. F. IEVIN'SH
(Institute for Inorganic Chemistry, Acad. Sci. Lettish SSR)

Quantitative thermographic investigations on Cu₃AsS₃ and Cd₃P₂

G. N. SHPYRKO, M. I. GOLOVEI, M. YU. RIGAN, I. YU. ROMAN
(State University, Uzhgorod)

Thermographic investigation of the halogeno and nitro complexes of platinum

L. K. SHUBOCHKIN, V. I. GUSHCHIN, E. F. SHUBOCHKINA
(Institute for General and Inorganic Chemistry "N. S. Kurnakov", Acad. Sci. USSR)

Complex thermal analysis of the formation process of calcium metaphosphate

L. N. SHCHEGROV, E. D. DZUBA, V. N. MAKATUN
(Belorussian Institute of the People's Economy "V. V. Kuibyshev")

Thermal stability of adducts of silicon tetrafluoride with primary aliphatic amines

A. A. ENNAN, L. A. GAVRILOVA, V. I. NIKITIN
(State University "I. I. Mechnikov", Odessa)

Thermal analysis of the complexes of urea with calcium nitrate and calcium nitrite

O. K. YANAT'eva, V. T. ORLOVA, D. I. IZOTOV, E. YA. ASTAF'eva, T. E. MOLCHANOVA
(Institute for General and Inorganic Chemistry "N. S. Kurnakov", Moscow, and Mordovskii State University, Saransk)

*Products of organic syntheses and polymers**Thermographic studies on the interaction of dimethyl-phosphorous acid with cyclones*

B. A. ARBUZOV, A. B. FUZHENKOVA, A. F. ZINKOVSKII
(State University, Kazan')

Use of the DTA method for the study of the interaction of phosphorous acid esters with some inner carbonyl compounds

B. A. ARBUZOV, A. V. FUZHENKOVA, T. D. SOROKINA, G. A. TUDRII, V. M. ZOROASTROVA
(State University, Kazan')

On the thermal stability of rare-earth naphthenates

KH. I. BAIKENOV, N. K. ILYUSIZOV, S. E. DYUSEMBAEVA, N. A. BAIKENOVA,
U. D. SUZDYKBAEVA
(Institute for Chemical Metallurgy, Acad. Sci. Kazakh SSR)

Thermal transformations in PAN fibres

V. A. GORBACHEVA, T. K. MIKHAILOVA, N. F. KONNOVA, S. G. FEDORKINA,
V. M. BONDARENKO, M. T. AZAROVA, A. A. KONKIN
(All-Union Sci. Res. Institute for Synthetic Fibres)

Use of the thermal analysis in the investigations of the interaction and polymerization of boric acid with polyatomic alcohols

V. V. GRUNDSHTEIN, E. M. SHVARTS, A. F. IEVIN'SH
(Institute for Inorganic Chemistry, Acad. Sci. Lettish SSR)

Thermal analysis of lignine in combination with ESR and mass-spectrometric methods

G. E. DOMBURG, V. N. SERGEEVA, T. N. SKRIPCHENKO, M. P. GAVARS
(Institute for the Chemistry of Wood, Acad. Sci. Lettish SSR)

Thermal analysis of poly-ethyleneglycol-oxalate

YA. A. DUNDURS, A. F. ALKSNIS
(Institute for the Chemistry of Wood, Acad. Sci. Lettish SSR)

Investigation on the thermal destruction of aromatic polyamides

A. T. KALASHNIK, A. M. SHCHETININ, YU. L. PANKRATOV, L. D. SEROVA, I. F. KHUDOSHEV
(All-Union Sci. Res. Institute for Synthetic Fibres)

Differential thermal analysis of polyacryl-nitrile

V. I. KASTOCHKIN, M. E. KAZAKOV, V. V. POLUEKTOVA, Z. S. SMUTKINA, T. D. YARES'KO
(Institute for Fuel Minerals MUP, USSR)

Use of a thermoanalytical method for the investigation of the raw materials of carbon

N. A. LAPINA, V. S. OSTROVSKII
(Moscow)

Thermal analysis of thermo-oxidated polyacryl-nitrile fibres

N. A. LAPINA, V. I. FROLOV, G. K. ZHDANOVA, V. S. OSTROVSKII
(Moscow)

Thermal analysis, electric conductivity and chemiluminescence investigation of low temperature halogenation and hydro-halogenation reactions of olefines

V. A. LISHNEVSKII, G. V. AVVAKUMOV, V. M. KUSMARTSEV
(Belorussian State University "V. I. Lenin")

Derivatographic investigation of coking characteristics of hard coals

V. V. MOCHALOV
(Eastern Sci. Res. Institute for Coal Chemistry)

Thermal analysis studies on the carbonation of polymers

V. S. OSTROVSKII, N. A. LAPINA
(Moscow)

Use of DTA for studying phosphonate — phosphate rearrangement and concomitant processes

A. N. PUDOVIK, I. V. KONOVALOVA, G. V. ROMANOV, M. G. ZIMIN, M. SH. YAGFAROV,
R. G. FITSEVA, N. P. BURMISTROVA
(Institute for Organic and Physical Chemistry "A. E. Arbuzov" KFAN, USSR, and State
University "V. I. Lenin", Kazan)

Thermal stability of the biphenyl bond and the phenyl-coumarane cycle in veratrum structures

G. A. ROSSINSKAYA, G. E. DOMBURG
(Institute for the Chemistry of Wood, Acad. Sci. Lettish SSR)

Thermal analysis of heat resistant polymers

L. D. SEROVA, I. F. KHUDOSHCHEV, R. G. FEDOROVA, G. I. KUDRYAVTSEV
(All-Union Sci. Res. Institute for Synthetic Fibres)

Thermogravimetric studies on the effect of mineral ingredients on the thermo-oxidative destruction of polymers

YU. I. SKORIK, S. K. KUCHAREVA
(Institute for Silicate Chemistry, Acad. Sci. USSR)

Investigation of the thermal stability of chlorinated PVC sheets modified by inoculated polyacryl-nitrile

A. M. SMIRNOVA, G. A. GONCHAROVA, T. V. RAIKOVA
(Institute for Physical Chemistry, Acad. Sci. USSR)

Study of the thermal stability of poly-(organo-titano-arilene-siloxanes)

A. L. SUVOROV, A. V. MALYARENKO, V. V. KRIVONISHCHENKO
(Institute for Chemistry, Ural Scientific Center, Acad. Sci. USSR)

Thermography of complicated organic compounds as a method for the determination of chemical and crystallochemical characteristics of materials (for the example of vitamins)

R. V. FEDOROVA, P. I. FEDOROV
(All-Union Sci. Res. Institute of Vitamines, and Institute for Fine Chemical Technology
"M. V. Lomonosov", Moscow)

*Minerals, silicates, glass and cement**Investigation of the decomposition of a pyrite containing raw material*

D. N. ABISHEV, A. K. KOBZHASOV, N. Z. BALTYNova
(Institute for Chemical Metallurgy, Acad. Sci. Kazakh SSR)

Thermographic investigation of new synthetic magnesium compounds

S. F. AKGMEToV, G. L. AKHMEToVA
(All-Union Sci. Res. Institute of Mineral Raw Materials)

Thermal decomposition kinetics of the ammonium form of natural zeolites

T. V. BATIASHVILI, I. A. BELITSKII
(Institute of Geology, Acad. Sci. Gruzish SSR, Institute for [Geology and Geophysics, Siberian Dept., Acad. Sci. USSR)

Derivatographic and X-ray diffraction complex method for the quantitative determination of hydrates in cements

I. D. BERKHoeV, D. S. LYSUNKINA, L. N. SKRINNIIK, A. G. KHOLODNI
(Institute "Yuzhgiprotsement")

Phase composition determination of germanium concentrates by thermal and X-ray diffraction methods

E. I. BOGOSLOVSKAYA, E. V. SAVINA, V. V. KAZAKOVA, A. I. SLAVSKAYA
(Institute of Colour Metals, Moscow)

Use of derivatography for the quantitative evaluation of MgO hydration grade in concretes of high magnesium content, hardened 15 years ago

KH. S. VOROBo'EV, L. A. KROICHUK, A. A. LUKASHEVICH
(VNIISTROM MPSM, USSR)

Thermal investigation of a synthetic hydroxyl-asbestos

YU. I. GONCHAROV, B. A. DRITS, I. P. KHADZHI, V. E. KHADZHI, V. A. ALEKSANDROVA,
V. G. LUSHNIKOV
(VNIISIMS, Aleksandrov, and GIN, Acad. Sci. USSR, Moscow)

DTA of glassy-crystalline cements

T. K. GORBACHEVA, T. N. IVANOVA, V. M. KATLINSKII, T. N. KOCHEBOKOVA,
L. F. YURKOV
(OKB, Factory of Electro-vacuum Instruments, Moscow)

Distinction of structural sorts of montmorillonites and types of organic clay formations by the thermal analysis method

A. A. DVORECHENSKAYA, N. F. PSHENICHNAYA, M. V. EIRISH
(Institute for Geologic Sciences "K. I. Satpaev", Acad. Sci. Kazakh SSR)

Thermal investigations on some minerals of the riebeckite-glaucophane series

Z. P. ERSHOVA
(Institute for Ore Quarries, Petrography, Mineralogy and Geochemistry, Acad. Sci. USSR)

On the effect of finely dispersed carbonates on the shape of the heating curves of some clay types

N. V. ZAITSEVA
(Institute for Geochemistry and Geophysics, Acad. Sci. Belorussian SSR)

Differential thermal studies on the crystallization process of glasses of CaO—SiO₂—Al₂O₃—Fe₂O₃ quaternary system

P. V. ZOZULYA, KH. YU. VEKHTLER
(Technological Institute "Lensovet", Leningrad)

New data in the thermoanalytical investigation of some mineral groups and ore types

V. P. IVANOVA, B. K. KASATOV, T. N. KRASAVINA, E. L. ROZINOVA
(All-Union Sci. Res. Institute of Geology)

Studies on the interaction between the oxides of arsenic and soda

S. M. ISABAEV, M. I. ZHAMBEKOV, B. K. KASENOV
(Institute for Chemical Metallurgy, Acad. Sci. Kazakh SSR)

Thermographic investigation of the oxidative roast processes of granulated ferrophosphorus with soda

M. N. KAZOV, V. P. MALYSHEV, R. A. KAZOVA, Zh. Kh. SARKULOV, N. M. MUTALKHANOV
(Institute for Chemical Metallurgy, Acad. Sci. Kazakh SSR)

Some specialities of the decomposition of alunite and its structural analogues

M. A. KASHKAI, Ch. M. KASHKAI, I. A. BABAEV
(Institute for Geology, Acad. Sci. Azerbaidzhan SSR)

High temperature thermographic apparatus for the complex study of silicate systems in different gas surroundings

V. K. KLASSEN, I. G. LUGININA, G. P. POLYAKOV, A. N. LUGININ, G. A. SHAPOREV
(Kazakh Institute for Chemical Technology, Chimkent)

Application of differential thermal analysis and thermogravimetry for the characterization of scattered organic materials in minerals

L. E. KOZLOVA
(Institute for Geology and Geophysics, Siberian Dept., Acad. Sci. USSR)

Thermographic study of bauxites after super-fine crushing

T. A. KORNEVA, T. S. YUSUPOV
(Institute for Geology and Geophysics, Siberian Dept., Acad. Sci. USSR)

Thermographic investigation of hopeite

A. G. KOTLOVA, N. I. SHCHEPOCHKINA, B. M. KOBTSEV
(Institute for the Geology of Ore Quarries, Petrography, Mineralogy and Geochemistry, Acad. Sci. USSR)

Thermographic study of crysothyl-asbestos of the crumbling zone, taking as an example an asbestos from Kiembraev

E. P. KRAINEVA, A. S. K. OGNEV
(VNIIproektasbest, Asbest)

Structure of melilite type glasses on the basis of thermal, X-ray diffraction, petrographic analyses and ESR

A. A. LAZAREVA, D. S. LYSUNKINA, L. N. SKRYNNIK, T. YU. SHCHETKINA, A. G. KHOLODNY
(Institute Yuzhgiprotsement)

Complex thermal investigations on the effect of the secondary components of cement raw mixtures on clinker formation processes

I. G. LUGININA, A. N. LUGININ, I. S. AKHMETOV
(Kazakh Institute for Chemical Technology, Chimkent)

Thermographic investigation of kaoline compositions and mixtures of silicic acid gel with zircon in the presence of PAV molecules

I. I. NEMETS, A. N. MOZGOVOI, G. D. SEMCHENKO, V. V. ZAIKOVA
(Polytechnical Institute, Khar'kov)

Thermographic investigation of the reaction of water-free alkaline-aluminium alums with hydrogen

N. N. POPRUKAILO

(Institute for Chemical Metallurgy, Acad. Sci. Kazakh SSR)

Thermographic investigation of basic aluminium—iron—chrome sulphates (alunite type) obtained in an autoclave

E. V. SAVINA, E. I. BOGOSLOVSKAYA, S. I. SOBOL'

(Institute for Colour Metals, Moscow)

Thermal investigation of portland cement and tricalcium silicate with chemical additives

L. G. FILATOV, S. N. KUZNETSOV

(Promstroiniiproekt, Khar'kov)

Investigation of the heating processes of the material for silicate melt production

L. G. FILATOV, R. I. SHMATKOVA'

(Promstroiniiproekt, Khar'kov)

Thermographic investigations on some cation-exchanging forms of zeolites of high silicon content — Clinoptilolite and λ -type zeolite

G. V. TSITSISHVILI, E. K. KVANTALIANI

(Institute for Physical and Organic Chemistry "P. G. Melikishvili", Acad. Sci. Grusian SSR)

Thermal and X-ray study of the α - β -transformation of quartz and cristobalite

V. F. CHURBAKOV, A. V. MEDVEDEV, K. P. REBROVA

(Mining Institute, Moscow, and State Institute of Quartz Glasses, Leningrad)

Thermographic investigation of synthetic and slag glasses

L. A. SHELDYAKOV, O. I. SLYUSAREVA, YU. A. MARKONRENKOV, D. A. BABASHEV

(Institute of Chemical Sciences, Acad. Sci. Kazakh SSR, Alma-Ata)

2nd NORDFORSK SYMPOSIUM ON THERMAL ANALYSIS, DENMARK, 1973

The Scandinavian Committee on Thermal Analysis held the 2nd Symposium at the Research Establishment Risø of the Danish Atomic Energy Commission in Roskilde, Denmark on September 13–14, 1973. Under the comprehensive title

CHARACTERIZATION OF MATERIALS BY THERMAL ANALYSIS

the following lectures were read:

Theory

The study of equilibria by means of thermal analysis

J. ŠESTÁK

(Institute of Solid State Physics, The Czechoslovakian Academy of Science, Prague)

Assessment of stored energy in powders by means of DTA and X-ray diffraction

G. BERGGREN

(AB Atomic Energy, Studsvik, Sweden)

Non-isothermal kinetics studies

P. D. GARN

(University of Akron, Chemistry Department, Akron, Ohio, USA)

*Standardization**ICTA's standardization work*

G. ROED

(Institute of Silicate Industry, Technical University of Denmark, Lyngby, Denmark)

*Metals**Application of thermal analysis in metal systems*

P. SAIKKONEN

(Chemical Department, Helsinki University of Technology, Otnäs, Finland)

Studies of magnetic phase transformations in Cr and Cr-alloys with calorimetric measurements

H. U. ÅSTRÖM

(Solid State Physics, Royal Institute of Technology, Stockholm, Sweden)

A study of electronic structure in indium-cadmium alloys with DTA

P. LUOVA

(Physics Department, Turku University, Finland)

*Inorganic compounds**Application of DTA within cement- and concrete research*

N. THAULOW

(Cement and Concrete Research Centre Karlstrup, Denmark)

DTA equipment for examination of molten fluorides to 1200°C

J. LÜTZOW HOLM

(Institute of Physical Chemistry, The Technical University of Norway, Trondheim, Norway)

Sulphating roasting of minerals studied by thermogravimetry

G. ASMUND

(Grønlands Geologiske Undersøgelse, Copenhagen, Denmark)

Thermogravimetric studies of the high temperature thermodynamic properties of plutonium oxides

O. TOFT SØRENSEN

(Metallurgy Department, AEK, Risø)

*Organic compounds**Characterization of polymers by thermoanalytical methods*

E. SÖRVIK

(Polymergroup, Chalmers Technical University, Göteborg, Sweden)

Characterization of electrical insulation materials by thermogravimetric measurements

O. TØNNESEN

(Thrige-Titan A/S, Odense, Denmark)

Dilatometric measurements on epoxy plast

P. Å. LÖFGREN

(Defence Research Institute, Stockholm, Sweden)

Application of thermoanalytical methods on the characterization of fat

O. FORBERG

(Institute of Industrial Research, Oslo, Norway)

Thermoanalytical measurements on chlorinated polyethylenes

V. ERÄ

(Institute for Wood- and Polymer Chemistry, Helsingfors Universitet, Finland)

Differential scanning calorimetric investigations of the system testosterone—testosteronhydrate

S. FRØKJÆR

(Pharmaceutical Highschool, Copenhagen, Denmark)

*Equipments**Characterization of biological materials by DSC*

B. CASSEL

(The Perkin-Elmer Corp., Norwalk, USA)

Applications of a new high sensitivity thermobalance

E. L. CHARSLEY

(Stanton Redcroft, London, England)

Characterization of thermoplastic polymers by thermal analysis

A. ROBSON

(Du Pont Instruments, England)

Experience with a simultaneous equipment for DTA and evolved gas analysis (EGA)

EMMERICH

(Netzsch-Gerätebau, Selb, Germany)

Applications and on-line data evaluation of quantitative DTA measurements

V. SCHLICHENMAIER

(Mettler Instrumente, Switzerland)