

Events

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Organized by

The Academy of Sciences of the U.S.S.R.,
The Scientific Council on Thermal Analysis,
The Kurnakov Institute of Inorganic Chemistry,
The Academy of Sciences of the Latvian S.S.R.,
The Institute of Wood Chemistry,
The Latvian Branch of the All-Union Mendeleev Chemical Society.

PLENARY LECTURES

Determination of the energetic characteristics of rapid thermal decomposition processes

A. I. BORVIKOVA and F. YA. GIMELSHEYN
(Institute of Inorganic Chemistry, Siberian Department of the Academy of Sciences of the U.S.S.R., Novosibirsk)

Thermal analysis in wood chemistry and aspects of its development

G. E. DOMBURG
(Institute of Wood Chemistry of the Academy of Sciences of the Latvian S.S.R., Riga)

Problems of the standardization of nomenclature in thermal analysis

E. K. KELER and YU. N. SAZANOV
(Institute of Silicate Chemistry of the Academy of Sciences of the U.S.S.R., Leningrad)

Application of thermal analysis in the study of phase diagrams of metal systems

YU. A. KOCHERZHINSKY
(Institute of Metallography of the Academy of Sciences of the Ukrainian S.S.R., Kiev)

Thermoanalytical instruments and trends in their development

I. E. KUDINOV and L. S. SEDLOVICH
(Kurnakov Institute of General and Inorganic Chemistry of the Academy of Sciences of the U.S.S.R., Moscow)

Present state and prospects of thermal analysis

V. B. LAZAREV
(Kurnakov Institute of General and Inorganic Chemistry of the Academy of Sciences of the U.S.S.R., Moscow)

Potentials of thermal analysis for evaluating the thermal stability of coordination compounds

V. A. LOGVINENKO

(Institute of Inorganic Chemistry, Siberian Department of the Academy of Sciences of the U.S.S.R., Novosibirsk)

Thermal analysis of cements

O. P. MCHEDLOV-PETROSYAN

(College of Structural Engineering, Kharkov)

Thermal analysis of polymers

B. YA. TEYTELBAUM

(Arbuzov Institute of Organic and Physical Chemistry, Kazan Branch of the Academy of Sciences of the U.S.S.R.)

Thermal analysis in the Baltic Republics

E. M. SHVARTS

(Institute of Inorganic Chemistry of the Academy of Sciences of the Latvian S.S.R., Riga)

THEORY AND METHODS

Differential thermal analysis of high-melting systems in which one of the components has high vapour tension

P. I. ANTIPOV, YU. M. KORENOV and A. V. NOVOSELOVA

(Lomonosov State University, Moscow)

Thermal diffusion interaction mechanism in the metal-non-metal system at linear heating

A. B. ARUTYUNYAN, S. L. KHARATYAN and A. G. MERZHANOV

(Institute of Chemical Physics of the Academy of Sciences of the Armenian S.S.R., Yerevan)

Thermographic investigation of the oxidative destruction of fibers

I. N. ANDREEVA, A. T. KALASHNIK and S. P. PAPKOV

(All-Union Research and Design Institute of Man-Made Fibers, Mytishchi, Moscow Region)

Calculation of the kinetic parameters of cellulose thermolysis from mass-spectrometric data

N. A. BELIKHMAER and A. T. KALAZHNIK

(Polytechnical College, Tomsk)

Calculation of kinetic parameters for complex decomposition processes of solids from non-isothermal data

B. A. BURKATOVSKY, V. N. KUMOK and M. B. FIALKO

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

Application of DTA with simultaneous recording of conductance changes to investigate some particular features of the separation process of solids from melts

N. P. BURMISTROVA

(Ulyanov-Lenin State University, Kazan)

Calculation of the kinetic parameters of metal hydroxide thermolysis processes

T. N. BOKOVIKOVA, S. I. SMYSHLYAEV, E. P. TSIMBAL and L. A. SIMONOVA

(Polytechnical College, Krasnodarsk)

Determination of heat of transformation and specific heat with the Derivatograph by L. G. Berg's method

V. G. VLADINOS, V. P. EGUNOV and A. A. OPRISHKO
(Scientific Design Department "Promavtomatika", Grozny)

Problems and potentials in non-isothermal kinetics

B. M. GROPYANOV and B. G. ABBAKUMOV
(All-Union Institute for Refractory Materials, Leningrad)

Thermal analysis of materials subjected to continuous acoustic vibration

V. I. DERBAN, I. P. ZHU and V. I. KRYLOVICH
(Lykov Institute of Heat and Mass Exchange, Academy of Sciences of the Belorussian S.S.R., Minsk)

Determination of overlapping peaks in DTA curves

M. I. KOZHUKHOV
(Polytechnical College, Kuybishev)

Study of the kinetics of thermal processes on the Calvet calorimeter

A. I. KOLESOV
(Institute of Mechanics of Polymers, Academy of Sciences of the Latvian S.S.R., Riga)

Program for the computation of theoretical thermogravimetric curves under non-isothermal conditions

V. D. KOLSTYUK, V. I. KRIVOBOK and T. T. GOTMANOVA
(State University, Donets)

A study of the dehydration kinetics of brucite

A. G. KOTLOVA, N. I. SHEPOCHKINA and G. O. PILOYAN
(Institute of Geology of Ore Deposits, Petrography, Mineralogy and Geochemistry, Academy of Sciences of the U.S.S.R., Moscow)

Utilization of the value T_0 for solving applied tasks

E. T. GEVORKYAN and L. V. BARKOVA
(All-Union Research Institute of Electromechanics, Department in Istra)

The course of successive reactions at linear heating

V. T. GONTOVSKAYA and V. V. BARZYKIN
(Institute of Chemical Physics of the Academy of Sciences of the U.S.S.R., Department in Chernogolovka)

Non-steady-state diffusion at programmed heating

V. M. GORBACHEV
(Institute of Inorganic Chemistry, Siberian Department of the Academy of Sciences of the U.S.S.R., Novosibirsk)

Utilization of thermal analysis for investigating the kinetics of physicochemical processes

V. A. GRIVA and V. I. ROZENBAND
(Institute of Chemical Physics of the Academy of Sciences of the U.S.S.R., Department in Chernogolovka)

A method to calculate the thermokinetic constants of decomposition reactions of condensation products

A. M. GRISHIN and A. YA. KUZIN
(Kuybishev State University, Tomsk)

A method for determining kinetic parameters from DTA curves

G. A. KALINKEVIC, E. S. BRODSKY, I. M. LUKASHENKO, T. P. MOROZOVA and R. A. KHMELNITSKY
(Timiryazev Agricultural College, Moscow)

Differential thermal analysis of gases

N. I. LISOV, A. G. KHOMSKAYA, V. P. EGUNOV, A. V. NEMKOV and V. V. NEMKOV
(Polytechnical College, Kuybyshev)

Effect of the non-steady-state temperature range on the kinetic parameters of the isothermal oxidation of metals

L. K. LOKENBAKH, I. A. ABRAMS, KH. E. KALIS, V. V. STROD and L. K. LEPIN
(Institute of Inorganic Chemistry, Academy of Sciences of the Latvian S.S.R., Riga)

A program for processing TGA curves with variable time

A. M. MOSIN and F. N. VISHNEVSKY
(State Research Institute for the Chemistry and Technology of Organoelemental Compounds, Moscow)

On the kinetics of reversible polymorphic transitions

G. O. PILOYAN and O. S. NOVIKOVA
(State Research and Design Institute for the Nitrogen and Organic Synthesis Industries, Moscow)

A modified differential thermogravimetric analysis of minerals

G. O. PILOYAN and A. G. KOTLOVA
(Institute of the Geology of Ore Deposits, Petrography, Mineralogy and Geochemistry, Academy of Sciences of the U.S.S.R., Moscow)

A method for the thermal analysis of systems with stable and non-stable equilibrium areas

V. I. POAREV, A. V. KUZNETSOV, V. G. KIRIN and A. L. IVANOV
(Chuvash State University, Cheboksari)

To the problem of standardization of methods for measuring melting and crystallization characteristics of polymers with different types of DTA and DSC instruments

E. V. SAMARDUKOV, B. S. BIL and N. I. KUZINA
(Research Institute for Plastics, Moscow)

A study of the thermal stability of urea coordination compounds of rare earth element carboxylates

YU. G. SAKHAROVA and T. I. BOGODUKHOVA
(State University, Saratov)

Determination of the kinetic parameters of cementing systems by non-isothermal methods

M. M. SYCHEV, L. B. SVATOVSKAYA and T. N. POLYAKOVA
(Leningrad Technological College, Leningrad)

The analysis of the kinetics of two combined reactions

O. A. TEPLOV, YU. V. TARACENSKO and L. A. PETROV
(Baykov Institute of Metallurgy, Academy of Sciences of the U.S.S.R., Moscow)

Determination of kinetic constants of dissolution by means of DTA curves

N. D. TOPOR, G. K. TSOY and L. P. OGORODOVA
(Lomonosov State University, Moscow)

Differential thermal analysis of systems with volatile components

N. A. UGAY, E. G. GONCHAROV and L. I. SOKOLOV
(State University, Voronezh)

To the problem of data processing in thermoanalytical experimental work

A. M. FILONOV and G. O. PILOYAN
(State Research and Design Institute for the Nitrogen and Organic Synthesis Industries,
Moscow)

Investigation of crystallization processes by DTA and dilatometry methods

V. A. SHELEST, A. G. GRIGOREV and M. D. AKSANOV (Scientific Design Department
"Promavtomatika". Grozny),

Calculation of kinetic parameters on the basis of thermogravimetric data

V. G. SHKODIN, V. P. MALYSHEV and R. F. KIM
(Chemical-Metallurgical Institute, Academy of the Kazakh S.S.R., Karaganda)

Determination of the degree of crystallization of partially crystalline substances and study of the changes in phase composition during heating by quantitative thermal analysis

M. SH. AGFAROV
(Institute of Organic and Physical Chemistry, Kazan Branch of the Academy of Sciences of
the U.S.S.R.)

APPARATUS

Differential thermal analysis of microobjects. Particular features of the technique and potentials of the method

O. N. BREUSOV, B. M. BOLKOV, V. N. DROBYSHEV, I. G. STRIZHKOVA and V. F. TATSY
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Chernogolovka)

Application of a modified high-frequency method and thermal microanalysis for the thermal analysis of binary salt melts

B. P. BURYLEV, R. A. UZBEKOV, T. B. POCHINOK and I. V. KULAKOVA
(State University, Krasnodar)

Apparatus for differential thermal analysis at high temperatures

V. I. VASILENKO, A. D. EVPREV, V. G. EPIFANOV, G. P. KARAS, YU. A. KOCHERZHINSKY,
V. P. MIKHAYLENKO, E. A. MOSKALENKO, A. V. PUGACH, V. P. SKVORCHUK and E. A.
PISHKIN
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Apparatus for the thermal analysis of composite materials at fast heating conditions

A. B. VINOGRADOV, V. M. LAKOZA, V. L. MIKOV, K. N. RUSAKOVA, N. K. SKLEMIN, R. G.
STROITELEVA and G. H. YASHCHENKO
(Moscow)

Automated apparatus for the thermal analysis and mass spectrometry of fast reactions

F. YA. GIMELSHEYN and A. N. MIKHEEV
(Institute of Inorganic Chemistry, Siberian Department of the Academy of Sciences of the
U.S.S.R., Novosibirsk)

Investigation of the thermo-electric properties of galvanic sensors for heat flow from the view of their utilization in high-temperature calorimetry and thermoanalytical instruments

P. S. GORDIENKO, A. V. EFIMENKO, A. S. INBERG, N. YA. KOVARSKY, L. F. GORIN
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Calorimetric attachment to the Derivatograph for studying materials in the temperature range between 300 and 750 K

P. C. GORDIENKO and A. M. VASILEV
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Metrologic features of instruments for thermal analysis

V. P. EGUNOV, YU. V. AFANASEV and L. L. OSECHKINA
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Electronic microthermobalance based on an indicating instrument

I. T. EFIMOV, F. N. VISHNEVSKY and I. I. SKOROKHODOV
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Information-processing system by microprocessors for the automation of experimental studies in thermal analysis

G. P. ZIMIN, V. P. EGUNOV and S. I. TRESHCHEV
(Kuybyshev Polytechnical College, Kuybyshev)

May thermal pulses be applied to calibrate thermoanalytical instruments?

A. N. IZMALKOV, A. D. KIYAEV and V. P. EGUNOV
(Kuybyshev Polytechnical College, Kuybyshev)

Simultaneous high-temperature thermal analysis of Portland cement mixtures

V. K. KLASSEN and G. N. SHAPAREV
(Technological College for Materials of Construction, Belgorod)

Automated systems for mass-spectrometric thermal analysis

O. P. KOROBENICHEV, I. N. SKOVORODIN, S. V. POLOZOV and V. N. ORLOV
(Institute of Chemical Kinetics and Combustion, Siberian Department of the Academy of Sciences of the U.S.S.R., Novosibirsk)

Study of thermal effects at ordered phase—disordered phase transitions in a number of noble metal alloys

V. M. KUSHNARENKO, S. N. POPOV, R. O. DEDYUKHIN, L. A. ERMOLAEV and E. V. KOZLOV
(Engineering and Building College, Tomsk)

Compensative electrothermograph for liquid media

L. V. MASHKINOV, A. B. PETUKHOV, L. N. GALPERIN, S. A. ZHUKOV, V. V. BARENKO and A. G. MERZHANOV
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Particular features in the application of thermal analysis for inorganic fluorides

V. N. MITKIN and S. V. ZEMSKOV
(Institute of Inorganic Chemistry, Siberian Department of the Academy of Sciences of the U.S.S.R., Novosibirsk)

A study of the thermal destruction processes of poly(methylsilsequioxane)-aluminium oxide blends by simultaneous mass spectrometry and thermogravimetry

G. I. PASHINTSEVA, V. YA. KOVALENKO and M. L. PUSTILNIK
(All-Union Research Institute of Electric Insulation Materials and Foil-Plated Dielectrics, Moscow)

A fast method for differential thermal analysis of high-melting fluoride systems

E. P. SOBOLEV, YU. T. SIZGANOV, P. P. FEDOROV and KH. S. BARDASAROV
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Apparatus for differential thermovolumetric analysis in isothermal and polythermal conditions, in gas media of a given composition

M. B. TILTINSH, N. A. UPENIETSE, M. V. ZELTINA and V. B. BREYTSIS
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New thermoanalytical instruments of the DTAP series

A. S. TRUNIN, YU. V. MOSHCHEVSKY and A. S. KOSMYNIN
(Kuybyshev Polytechnical College, Kuybyshev)

Apparatus for the study of non-isothermal kinetics of heterogeneous chemical reactions up to temperatures of 2500 . . . 3000 °C by gravimetry

V. I. TYUKAEV, I. P. POLYAKOV and N. L. YADREVSKAYA
(Lykov Institute of Heat and Mass exchange, Academy of Sciences of the Belorussian S.S.R., Minsk)

Universal apparatus for thermomechanic studies of polymer films and fibres

M. G. TSIPIRIN, L. A. IRGEN, G. M. KERCH and YU. YU. SILIS
(Institute of the Mechanics of Polymers, Academy of Sciences of the Latvian S.S.R., Riga)

A new high-precision instrument for thermogravimetry UVT-1 (5)

B. E. SHVAYKO-SHVAYKOVSKY, A. YA. SHENFELD, N. A. PEREPELOV and E. K. KELER
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Utilization of thermal analysis for studies of refractory oxide systems

A. V. SHEVCHENKO and L. M. LOPATO
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SALTS

On the thermal decomposition of strontium orthophthalate trihydrate

G. V. ABRAMOVICH and L. N. SHCHEDROV
(Kuybyshev Belorussian State College of Economics, Minsk)

A thermoanalytical study of the kinetics of monoammonium phosphate decomposition

YU. B. ASHIKINA and L. S. GERKE
(Samoylov Research Institute of Fertilizers, Insecticides and Fungicides, Moscow)

Thermoanalytical investigation of the interaction between complex fluorides and manganese polyphosphates in multicomponent systems

G. A. BUKHANOVA, V. K. VOLKOVA, I. V. MARDIROSOVA, I. G. RABKINA, L. V. ZHDANOVA and N. I. MIROSOYANOVA
(Engineering and Building College, Rostov)

Utilization of thermal analysis for the study of bismuth oxyfluorides and sulfidofluorides

M. P. BORZENKOVA, F. V. KALINCHENKO and N. V. LIKHANSKAYA
(Lomonosov State University, Moscow)

Interaction of alkali-earth carbonates with molybdenic anhydride during heating

K. A. BUZDOV, A. D. DZUEV, V. V. VLASOV, I. KH. BAGOV, L. I. KULIKOVA, I. A. LYUBARETS
and I. T. KHACHETLOVA
(Kabardinian-Balkar State University, Nalchik)

Thermal study of the formation of condensed phosphates in the system $\text{CeO}_2\text{--NH}_4\text{H}_2\text{PO}_4$

M. A. VAJVADA and Z. A. KONSTANT
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Study of the thermodynamic properties of some fluorides by quantitative thermal analysis

L. M. VOLODKOVICH, YU. L. SUPONITSKY, G. S. PETROV, R. A. VECHER, A. G. GUSAKOV,
A. A. KOZYRO and A. A. VECHER
(Belorussian State University, Minsk)

Conductance and mechanism of conductivity in solid binary alkali carbonates

E. G. VOLZHANINA, A. G. RYABUKHIN, A. E. ERZHOV and R. E. SOLOVEVA
(Mechanical Engineering College, Kurgansk)

*The utilization of multiple thermal analysis for investigating the formation processes of lumino-
phores*

V. V. GAVRILOV, O. YA. MANASHIROV, N. M. KORABLEV, V. S. POSTOLOV, O. A. SLEPYSHEVA,
A. A. MIKHALEV, V. M. MIRONKENKO and L. N. KINZHIBALO
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Thermolysis of double pyrophosphates with the composition $\text{M}^{\text{III}}\text{NH}_4\text{P}_2\text{O}_7$ ($M = \text{V}, \text{Ti}, \text{Al}$)

YA. YA. GEDROVITS and Z. A. KONSTANT
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Thermal analysis of complex titanium and zirconium sulfates

N. M. GODNEVA, D. L. MOTOV, R. A. POPOVA and R. F. OKHRIMENKO
(Institute of the Chemistry and Technology of Rare Elements and Mineral Raw Materials,
Kazakhstan Branch of the Academy of Sciences of the U.S.S.R., Apatity)

Thermal decomposition of lithium borate hydrates 1 : 2 : 4, 1 : 2 : 3 and 1 : 2 : 10

A. E. DZENE and E. M. SHVARTS
(Institute of Inorganic Chemistry, Academy of Sciences of the Latvian S.S.R., Riga)

Application of thermogravimetry in the study of solid sorbents

A. N. EFREMOV, V. N. ANKOKHIN, V. N. EFREMOV and V. M. BYKOV
(Novomoskva Branch of the Mendeleev Chemical-Technological College of Moscow, No
vomoskva)

A thermoanalytical study of the solid-state synthesis of alkali-earth niobates

I. P. ZAPASSKAYA, V. M. ZHUKOVSKY, A. YA. NEYMAN and L. A. KOTOK
(Uralian State University, Sverdlovsk)

On the thermal decomposition of nickel(II), iron(III) and zinc(II) thiocyanides

A. P. ILIN
(State College for Teachers, Tomsk)

A study on the kinetics and mechanism of the thermal decomposition of crystalline double salt hydrates

V. P. ISUPOV, N. Z. LYAKHOV and L. A. ISUPOVA

(Institute of Physico-Chemical Fundamentals for Processing Mineral Raw Materials, Siberian Department of the Academy of Sciences of the U.S.S.R., Novosibirsk)

On the decomposition mechanism of calcium bichromate trihydrate

I. A. KANTEEVA, V. I. KISLITSIN, I. A. LEONTEVA, N. A. BERG, T. H. ZHITKOVA and B. S. KOGAN

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A thermoanalytical study of dicarboxylic acid salts of metals belonging to Group II

O. E. KOBLOVA and L. M. VDOVINA

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Oxidation mechanism of red phosphorus

V. I. KOSYAKOV, F. YA. GIMELSHYEN and A. N. MIKHEEV

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Thermal decomposition of crystalline praseodymium hydroxide

M. D. KRASILNIKOV, I. V. VINOKUROV and E. M. RYABININA

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Thermogravimetric investigation of dehydration processes of boron compounds

I. A. LEONTEVA, K. V. TKACHEV and I. A. KANTEEVA

(Uralian Research Institute of Chemistry, Sverdlovsk)

An investigation of rare earth element oxysulfides by thermoanalytical methods

V. I. LAPTEV, YU. L. SUPONITSKY, N. P. SOSHCHIN, A. F. VOROBEVA

(Mendeleev Chemical-Technological College, Moscow)

A study on the thermolysis of $(\text{Na}_2\text{CO}_3 \cdot \text{NaHCO}_3 \cdot 2 \text{H}_2\text{O})$ under non-isothermal conditions

V. A. LOGVINENKO and A. A. BOBKOVA

(Institute of Inorganic Chemistry, Siberian Department of the Academy of Sciences of the U.S.S.R., Novosibirsk)

A thermoanalytical study on the interaction of nickel(II) and tin(II) oxides with arsenic(III, V) oxides, and the thermal stability of nickel and tin arsenates

M. ZH. MAKHMETOV and L. G. GOROKHOVA

(Chemical-Metallurgical Institute, Academy of Sciences of the Kazakh S.S.R., Karaganda)

A thermogravimetric study on the interaction of selenium dioxide with sodium carbonate

M. ZH. MAKHMETOV, V. P. MALYSHEV and K. K. MAKHMETOVA

(Chemical-Metallurgical Institute, Academy of Sciences of the Kazakh S.S.R., Karaganda)

Thermal analysis of hafnium double sulfates

D. D. MOPOB, YU. P. SOZINOVA, R. A. POPOVA and L. S. KOROBENNIKOV

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Thermal and thermodynamic analysis of fluorination reactions

A. A. OPALOVSKY, E. U. LABNOV and S. S. TOROSYAN

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Interaction of potassium bifluoride with the oxides of some metals

A. A. OPALOVSKY, A. I. PRISYAZHNYUK, A. A. DZAMBEK and N. A. MISHARINA
(Mechnikov State University, Odessa)

Study of the thermal decomposition of rare earth element and cerium(IV) double sulfates

R. A. POPOVA, S. A. BONDAR and G. V. TROFIMOV
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Kazakhstan Branch of the Academy of Sciences of the U.S.S.R., Apatity)

Interrelation between the kinetic and thermodynamic parameters of the dehydration processes of zirconium and hafnium compounds and the particular structures of these compounds

Z. H. PROZOROVSKAYA and L. N. KOMISSAROVA
(Lomonosov State University, Moscow)

Thermal analysis of $\text{Ca}(\text{H}_2\text{PO}_4)_2 \cdot \text{H}_2\text{O}$ and $\text{Mg}(\text{H}_2\text{PO}_4)_2 \cdot 2 \text{H}_2\text{O}$ in the presence of various impurities

M. E. PYLDME, YU. KH. PYLDME and K. O. TYNSUAADU
(Polytechnical College, Tallin)

Investigation of the thermal decomposition process of ammonium metavanadate from non-isothermal kinetic data

T. M. SAS and G. L. RODINA
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Kinetic constants of the phase transitions and thermal decomposition of ammonium nitrate

O. I. TITOVA, G. N. ZAICHNO, YU. V. TSEKHANSKAYA, V. V. KUZNETSOVA, T. I. GONTARENKO
and M. B. BLINOVA
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Moscow)

The thermochemical reaction taking place in a mixture of polytrifluorochloroethylene with potassium bichromate

O. A. TOMIN, N. S. BUBYREVA, YU. P. PAVLOV and N. D. ROZENBLYUM
(Scientific Design Department "Kvant", Moscow)

A thermal study of the interaction between ammonium phosphate and the oxides of the iron group

B. A. TRUSHINSKA, A. P. DINDUNE and Z. A. KONSTANT
(Institute of Inorganic Chemistry, Academy of Sciences of the Latvian S.S.R., Riga)

A study of the role of intermediate phases in the reactions between solid strontium oxide and some metal halogenides

R. G. FITSEVA, N. P. BURMISTROVA and T. V. MUKHAMETSHINA
(State University, Kazan)

The application of DTA for studying the stability of ammonium perchlorate

E. F. KHAYRETDINOV, V. I. EROSHKINA and V. V. ALEKSANDROV
(Institute of the Physico-chemical Fundamentals for Processing Mineral Raw Materials,
Siberian Department of the Academy of Sciences of the U.S.S.R., Novosibirsk)

A study of phase equilibria in the systems dimethylsulfoxide-proton donor compounds by the DTA method

K. A. KHALDOYANIDIN, I. I. YAKOVLEV and N. V. PROTASOVA
(Institute of Inorganic Chemistry, Siberian Department of the Academy of Sciences of the
U.S.S.R., Novosibirsk)

Thermogravimetric study of clathrates formed of nickel thiocyanate complexes and benzene derivatives

I. V. KHOROSHUN and L. F. CHAPURINA

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Utilization of thermal analysis for the study of mixtures of ammonium phosphates and sulfates

S. V. SHABANOVA, A. G. DEMIDENKO and V. A. NADUBOV

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Thermal dehydration of crystalline orthophosphates

V. N. YAGLOV, A. I. VOLKOV and G. I. NOVIKOV

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COORDINATION COMPOUNDS

A study of solid-state decomposition processes of some ammonia complexes of transition metal nitrates

N. I. BATRACHENKO, S. V. LARIONOV and L. A. PATRINA

(Institute of Inorganic Chemistry, Siberian Department of the Academy of Sciences of the U.S.S.R., Novosibirsk)

A study of complex formation in mixtures of cadmium and alkali metal iodides by differential thermal analysis, conductance and nuclear quadrupole resonance measurements

N. P. BURMISTROVA, D. M. SHAKIROVA, I. N. PENKOV and R. S. ABDULLIN

(State University, Kazan)

Investigation of valency transitions of cerium in chloride coordination compounds by thermal analysis

A. P. BAYANOV and Z. A. TEMERDASHEV

(Kuban State University, Krasnodar)

A thermoanalytical study of some rare earth element monochloroacetates

L. M. VDOVINA and L. L. KUZNETSOVA

(State University, Saratov)

Thermal decomposition of boric acid complexes formed with hyaliphatic hydroxy acids

I. M. VITOL and E. M. SHVARTS

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Study of the interaction between boric acid and 5-aminosalicylic acid by thermal analysis

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Thermal decomposition of boron-inorganic acid complexes

D. G. GUBASHEVA, I. M. BITOL, V. G. KALACHEVA and E. M. SHVARTS

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Thermal decomposition of silver(I) and gold(I) complexes with thiovanol and of silver(I) complexes with glycerol

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A thermoanalytical study of the solid products formed in the action of ammonia on aqueous solutions of palladium, rhodium and ruthenium chlorides

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Thermal decomposition of samarium and cobalt carbonates and oxalates

A. YU. KROPANEV, A. N. PETROV, V. A. CHEREPANOV, V. M. ZHUKOVSKY and G. K. NEUDACHINA

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DTA investigation of $A^I_2Sb_2X_2^{VI}$ type compounds ($A^I =$ alkali metal, $X^{VI} = S, Se, Te, resp.$)

V. B. LAZAREV, A. V. SALOV, S. I. BERUL and N. A. MOSCHALKOVA

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Thermal properties of volatile metal chelates with sulfur-containing ligands

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Thermal decomposition of disalicyloborates

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A thermal study of the compounds of rare earth elements with 3,4-dimethoxybenzoic acid and dimethylmalonic acid

G. N. MAKUSHOV, S. B. PIRKES, T. V. ZAKHAROVA and A. V. LAPITSKAYA

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Thermal transformations of zinc monocarboxylate

V. V. PANEVCHIK and V. M. GORYAEV

(Kuybyshev Belorussian State College of Economy, Minsk)

Thermal properties of novel, ammonia-containing complex fluorides

R. A. POPOVA, V. G. MOROZOV, R. I. SHCHEGOLEVA and S. D. NIKITINA

(Institute of the Chemistry and Technology of Rare Elements and Mineral Raw Materials, Kazakh Branch of the Academy of Sciences of the U.S.S.R., Apatity)

Thermal properties of the acetates of some transition elements

Z. N. PROZOROVSKAYA, I. V. ARKHANGELSKY and L. N. KOMISSAROV

(Lomonosov State University, Moscow)

Measurement of the equilibrium decomposition pressure of magnesium and calcium fluorotantalates by DTA

Z. G. RAKOV

(Mendeleev College of Chemical Technology, Moscow)

Thermal decomposition mechanism of the sequence manganese(II) oxalate to copper(II) oxalate

G. G. SAVELEV and G. V. NYSH

(Polytechnical College, Tomsk)

Thermoanalytical study of the chemical reactions of some cluster compounds

V. E. FEDOROV, A. V. MISHCHENKO, Z. M. LOGVINENKO and A. P. MAZHARA

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OXIDES, METALS, ALLOYS

A study of the interaction mechanism between titanium and carbon in non-stoichiometric mixtures

V. V. ALEKSANDROV, M. A. KOCHAGIN, Z. I. PEROV and V. P. SAMARTSEV
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Siberian Department of the Academy of Sciences of the U.S.S.R., Novosibirsk)

Application of high-temperature DTA for the study of the interaction between high-melting metals and various additives

V. M. AMOSOV, B. A. KATELIN, B. S. MITIN and S. D. SHLYAPIN
(Moscow)

A kinetic study of the high-temperature dehydroxylation and de-ethoxylation of synthetic silica

A. M. BESSARABOV and V. S. SHIMICHEV
(All-Union Research Institute for Chemical Reagents, Moscow)

DTA investigation of synthesis reactions for high-melting compounds

(Institute of Metallophysics, Academy of Sciences of the Ukrainian S.S.R., Kiev)

Quantitative differential thermal analysis of the formation reactions of intermetallic compounds in the system germanium-bismuth-tellurium and of the thermal stability conditions of some stratified graphite compounds

B. L. VALEVSKY, A. A. VECHER, N. I. GURINOVICH, I. M. MISHKORUDNY, A. S. SKOROPANOV
and T. A. SHICHKOVA
(Lenin Belorussian State University, Minsk)

A study of phase transformations in pure and alloyed bismuth oxide by quantitative DTA

A. A. VECHER, A. G. VOROPEV, A. A. SAVITSKY, L. A. MECHKOVSKY and A. F. POLUYAN
(Lenin Belorussian State University, Minsk)

A colorimetric study of the double oxide La_2CuO_4 , in the temperature range 12 . . . 820 K

K. S. GAVRICHEV, V. E. GORBUNOV and G. A. SHARPATAYA
(Institute of General and Inorganic Chemistry, Academy of Sciences of the U.S.S.R.,
(Moscow)

Combined application of thermoanalytical methods in studies on the interaction between vanadium and titanium oxides and ammonium phosphates

YA. YA. GEDROVICH, T. A. KONSTANT and YU. SH. GOLDBERG
(Institute of Inorganic Chemistry, Academy of Sciences of the Latvian S.S.R., Riga)

Application of thermoanalytical methods for the investigation of copper and nickel catalytic systems

W. Z. GOLOSMAN, V. N. GELMAN, A. N. GRECHENKO, V. YA. DANYUSHEVSKY, V. N. EFREMOV,
A. I. KREYNDEL, V. S. SOBOLEVSKY and V. I. YAKERSON
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Organic Synthesis Industries)

DTA investigations of phase transformations in iron, in Fe—Cr solid solutions and in non-equilibrium alloys of aluminium with cobalt and vanadium

B. O. GORICHOK, T. I. BABYUK and R. D. VENGRENOVICH
(State University, Chernovits)

High-temperature DTA for the investigation of phase equilibria in the systems rare earth metal-carbon

V. N. EREMENKO, R. YA. VELIKANOVA, V. M. PETYUKH and O. V. GORDOYCHUK
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Thermodesorptive studies on industrial catalytic systems

ZH. A. EVDOKIMOVA and V. I. YAKERSON
(Petrochemical Works, Salavat)

Thermoanalytical investigation of the oxidation of chromium(III) and its effect on the crystallization of amorphous chromium oxide

B. P. ZOLOTOVSKY, O. P. KRIVORUCHKO and R. A. BUYANOV
(Institute of Catalysis, Siberian Department of the Academy of Sciences of the U.S.S.R. Novosibirsk)

An investigation of the effect of boron and tin on the critical temperature of the solid solution Si - Ge

M. G. KEKUA and N. K. BIGVAVA
(Institute of Metallurgy, Academy of Sciences of the Georgian S.S.R., Tbilisi)

DTA studies of activation processes of polymetal catalysts for hydrocarbon conversion

M. M. KOZHUKHOV, B. M. PAVLIKHIN, I. S. DEREVYANKO and M. E. LEVITER
(Kuybyshev Polytechnical College, Kuybyshev)

Differential thermal analysis of alloys based on molybdenum

YU. A. KOCHERSHINSKY and V. I. VASILENKO
(Institute of Metallophysics, Academy of Sciences of the Ukrainian S.S.R., Kiev)

Thermogravimetric analysis of the corrosion products of low-alloyed steel

O. K. KUKURS, A. YU. UPITE and D. V. VITOLA
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Synthesis of lanthanum and palladium double oxides and their phase transformations

B. G. KAKHAN, V. B. LAZAREV and I. S. SHAPLYGIN
(Kurnakov Institute of General and Inorganic Chemistry, Academy of Sciences of the U.S.S.R., Moscow)

The effect of sodium sulfate in the sulfatization process of non-iron metals at the roasting process of pyrite concentrates

N. D. KLYUEVA, N. G. KLIMENKO and E. I. KOROLEVA
(Central Research Laboratories of the Geological Exploration Institute, Moscow)

Thermochemical investigation of the niobium alloy 5 VMTS

Y. M. LYUTIN, O. S. TSEVITILEVICH, I. M. KASIYAN and R. D. VENGRENOVICH
(State University, Chernovits)

A thermoanalytical study of the reduction of the presumed components of the Al-Co-Mo catalyst

I. V. MAKARENKO, S. P. RODKIN and V. G. LIPOVICH
(Institute of Petrochemical and Carbochemical Syntheses at the Zhdanov State University, Antarsk)

DTA of martensitic transformations in alloys with shape memory effects

N. M. MATVEEVA, L. S. PETROV and YU. V. TARASENKO
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Thermal analysis of the reliability of metal structures

N. A. NEDUMOV, N. N. SHLEPKOV and E. P. CHERNOGLAZOV

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Specific features of thermal analysis for mercury-containing alloys

M. V. NOSEK, N. M. ATAMANOVA, V. I. LYSYAKOVA and A. A. ESPENBETOV

(Institute of Chemical Sciences, Academy of Sciences of the Kazakh S.S.R., Alma-Ata)

A study of previously reduced agglomerate by DTA

YU. M. POTEBNYA, S. A. GAVRILKO, R. G. RIKHTER, V. V. VOROPAEV and S. I. KUDIETSKAYA

(Industrial College, Zaporozhe)

Investigation of the thermal stability of some double oxides of rhodium and elements of Group V and VI, resp.

I. I. PROSYCHEV, I. S. SHALYGIN and B. V. LAZAREV

(Kurnakov Institute of General and Inorganic Chemistry, Academy of Sciences of the U.S.S.R., Moscow)

Application of thermal analysis in hydrogen and helium media for studying the properties of ammonia synthesis and methane conversion catalysts

L. A. TUDNITSKY, G. N. DEMINA, T. N. SOBOLEVA and A. M. ALEKSEEV

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Application of thermal analysis combined with gas chromatography for studying the kinetics of dissociation and interaction processes of metal oxides with solid carbon

L. K. SVANIDZE, D. V. MOSIYA and T. I. SIGUYA

(Institute of Metallurgy, Academy of Sciences of the Georgian S.S.R., Tbilisi)

DTA and DTG studies of Zn—Cr, Mn—Cr and Cr—Zn—Mn oxide catalysts

V. V. STONKUS, YU. SH. GOLDBERG and M. V. SHIMANSKAYA

(Institute of Organic Synthesis, Academy of Sciences of the Latvian S.S.R., Riga)

Thermoanalytical investigation of the sequence of chemical transformations in vanadium-containing oxide systems

B. V. SLOBODIN

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Thermal analysis of bronze-type non-stoichiometric compounds

A. STRUNIN, I. K. GARKUSHIN, T. T. MIFTAKHOV and G. E. SHTER

(Kuybyshev Polytechnical College, Kuybyshev)

Determination of the sequence of phase transformations in the interaction between NiO and V₂O₅

N. P. TUGOVA

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Determination of the catalytic activity of industrial catalysts from their thermoanalytical data

A. V. SHKARIN and O. V. ANISIMOVA

(Siberian Design and Technological Bureau for Catalysts, Novosibirsk)

SYNTHETIC POLYMERS

Application of thermal analysis to fast tests of thermal resistance and ageing of insulating materials

T. S. BEBCHUK, M. H. MUZAFAROVA and V. V. MATYUKHIN
(All-Union Research Institute of Electroinsulating Materials and Foil-Laminated Dielectrics, Moscow)

Investigation of the setting processes of epoxy-based powder paints by DTA

G. S. BOGDANOVA, V. V. VERKHOLANTSEV and I. V. KOLOSNITSYNA
(State Research and Design Institute of the Paint Industry, Moscow)

Investigation of the kinetics of multistage processes of thermal decomposition and of the effective heat capacity of polymers by TGA and DSC methods

A. E. VENGER and YU. E. FRAYMAN
(Institute of Heat and Mass Exchange, Academy of Sciences of the Belorussian S.S.R., Minsk)

Investigation of the catalytic interaction between epoxy oligomers and aromatic diisocyanates by the DTA method

N. S. GROMAKOV, N. S. KHOSIN and V. A. VOSKRESENSKY
(College for Engineering and Construction, Kazan)

A study of polymer coating formation processes on metals by the DTA method

N. I. EGORENKOV, A. I. KUZAVKOV and D. G. LIN
(Institute of Mechanical Properties of Metal-Polymer Systems, Academy of Sciences of the Belorussian S.S.R., Gomel)

A study of the setting processes in epoxy-based composite materials

E. YA. EROSHINA and T. S. BEBCHUK
(All-Union Research Institute of Electroinsulating Materials and Foil-Laminated Dielectrics, Moscow)

Application of thermal analysis for testing the efficiency of fire-retardants

A. V. ZHURKO, YU. S. PAYKACHEV and N. I. LYTkina
(Research Institute of Technical-Purpose Films and Artificial Leather, Ivanovo)

A study of the interaction between furane resins and mineral fillers

YU. G. IVASHCHENKO and A. V. CHUYKO
(Polytechnical College, Saratov)

Appraisal of the thermal stability of polymers and composite materials based on fast heating-rate, DTA and TGA data

G. N. ISAKOV, G. YA. MAMONTOV and V. V. NESMELOV
(Research Institute of Applied Mathematics and Mechanics at the Kuybyshev State University, Tomsk)

A thermogravimetric method for determining the content of the components in composite polymer materials with organic fillers

M. G. KAMENSKI and YU. M. MOLCHANOV
(Institute of Mechanics of Polymers, Academy of Sciences of the Latvian S.S.R., Riga)

Investigation of the thermal oxidation of octavinylsilsesquioxane

A. N. KANEV, F. YA. GIMELSHEYN, A. N. MIKHEEV and V. A. LOGVINENKO
(Institute of Inorganic Chemistry, Siberian Department of the Academy of Sciences of the U.S.S.R., Novosibirsk)

Application of thermomechanical analysis in the study of chemical transformations taking place at the thermal treatment of fibers

G. M. KERCH, G. A. KARLSONE, L. A. IRGEN and A. M. TOLKO
(Institute of Mechanics of Polymers, Academy of Sciences of the Latvian S.S.R., Riga)

Calculation of the activation energy by means of the shrinkage curves of orientated fibres

G. M. KERCH and L. A. IRGEN
(Institute of Mechanics of Polymers, Academy of Sciences of the Latvian S.S.R., Riga)

Application of thermal analysis for studying the diffusion properties of polymers

A. E. KREYTUS, I. S. BODONENKO, V. P. KARLIVAN and L. V. ZARINYA
(Institute of Wood Chemistry, Academy of Sciences of the Latvian S.S.R., Riga)

Thermogravimetric analysis of silicone oils using laser IR irradiation for heating

YU. I. KUKLOV and F. N. VISHNEVSKY
(State Research Institute of the Chemistry and Technology of Organoelemental Compounds, Moscow)

Thermal analysis of linear methylphenylsiloxane oligomers

E. D. LUKYANOVA, L. V. KIREEVA, N. A. VYAZMITINOVA, A. S. SHAPATIN, F. N. VISHNEVSKY and I. I. SHOROKHODOV
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Effect of orientation on the kinetics of thermooxidative destruction of heat-resistant polymers

A. YU. MAZOV, O. V. TROITSKAYA, I. F. KHUDOSHEV and G. I. KUDRAVTSEV
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Thermal studies of modified polyamide fibres and fabrics

M. V. POLOVNIKOVA, M. R. DZHUMABAeva and B. E. GELLER
(College for Textiles and Light Industry, Tashkent)

The effect of the isocyanate index on the thermal destruction of polyurethane foams

E. A. PUTNINSH, V. O. PUTNINYA, V. P. KARLIVAN and U. K. STIRNA
(Institute of Wood Chemistry, Academy of Sciences of the Latvian S.S.R., Riga)

Investigation of the thermal stability of poly(phenyleneoxadiazols)

O. I. ROMANKO, A. T. KALASHNIK, N. P. PANIKAROVA and I. N. ANDREEVA
(All-Union Research and Design Institute for Artificial Fibres, Mytishchi, Moscow Region)

Application of TGA for the reconstruction of the temperature gradients in partially destroyed surface layers of polymer composites

YU. A. SAKUNENKO and V. S. BIL
(Scientific Design Department Plastmassy, Moscow)

Thermal analysis of composite materials based on thermoplastics

E. V. SAMARDUKOV, V. S. BIL and N. I. KUZINA
(Scientific Design Department Plastmassy, Moscow)

A study of some kinetic parameters of the thermal destruction of novel, sulfur-vulcanized copolymers

B. P. SLUGIN, A. K. SVETLOV, S. V. BOLOTOVA and A. V. SPITSINA
(Scientific Design Department Karbonit, Kemerovo)

Thermal analysis combined with simultaneous gas chromatography of silicones

N. I. FOMINA, A. B. BLYUMENFELD, B. M. KOVARSKAYA, V. I. PAKHOMOV, V. M. GELPERINA and D. N. MUKHINA
(Scientific Design Department Plastmassy, Moscow)

Thermal analysis of fibres made of polymer blends varying in composition

I. F. KHUDOSHEV, R. G. FEDOROVA, O. V. TROIISKAYA and G. I. KUDRYAVTSEV
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Application of TGA for investigating the effect of aromatic flanking of the silicon atom on the thermal properties of silicones

E. A. CHUPROVA, B. V. MOLCHANOV, F. N. VISHNEVSKY, I. I. SKOROKHODOV and A. M. MOSIN
(State Research Institute of the Chemistry and Technology of Organoelemental Compounds, Moscow)

NATURAL POLYMERS

A study of the systems polymer-solvent by differential thermal analysis

V. M. AVERYANOVA and N. I. PANINA
(Chernyshevsky Siberian State University)

Application of thermal analysis for the study of the thermophysical properties of solid fuel

A. A. AGROSKY and E. I. GONCHAROV
(All-Union Correspondence College of the Food Industry, Moscow)

Gas-chromatographic and thermal analysis of cellulose under the conditions of anhydro-saccharose formation

I. YU. BERANIYA, G. E. DOMBURG and G. V. DOBELE
(Institute of Wood Chemistry, Academy of Sciences of the Latvian S.S.R., Riga)

Thermal characterization of cellulose and its composition by DTA

B. A. BOYCHUK, M. P. DIANOV and G. I. KOKOREV
(Engineering and Construction College, Kazan)

Thermal analysis of cellulose hydrate and polyacrylonitrile fibres at varying heating rates

V. O. GORBACHEVA, T. K. MIKHAYLOVA, I. A. MELNICHENKO and A. A. KONKIN
(All-Union Research and Design Institute for Artificial Fibres, Mytishchi, Moscow Region)

Thermal properties of systems based on cellulose acetates

T. G. GOLBINA, N. I. PANINA, V. M. AVERYANOVA and L. G. ANANEV
(Chernyshevsky State University, Saratov)

Effect of phosphoric acid on the thermal destruction of wood components

G. V. DOBELE, G. E. DOMBURG and T. E. SHARAPOVA
(Institute of Wood Chemistry, Academy of Sciences of the Latvian S.S.R., Riga)

Application of thermoanalytical methods for the grading of brown coal and for studies of the reactivity of brown coal and the products of its processing

N. N. DOBROVOLSKY, Z. S. SMUTKINA, N. V. FROLOVA and G. B. SKRIPCHENKO
(Institute of Mineral Fuels, Ministry of the Coal Industry of the U.S.S.R., Moscow)

Investigation of the thermal decomposition of cellolignins by thermal analysis, gas chromatography and electron paramagnetic resonance methods

G. E. DOMBURG, T. N. SKRIPCHENKO and I. Z. KIRSHBAUM
(Institute of Wood Chemistry, Academy of Sciences of the Latvian S.S.R., Riga)

A study of the thermal destruction process of peat in the presence of sulfur and its inorganic compounds by thermal analysis

V. K. ZHUKOV, O. I. MAZINA and V. E. RAKOVSKY
(Institute of Peat, Academy of Sciences of the Belorussian S.S.R., Minsk)

Application of the Derivatograph fitted with a dilatometric device for studying the shrinkage of carbonaceous materials

N. A. LAPINA
(Moscow)

Thermal analysis of pitch and peculiarities of its behaviour at heating

N. A. LAPINA and V. S. OSTROVSKY
(Moscow)

Application of DTA and DSC for studies of the state of water in living tissues of larch at temperatures below 0 °C

E. D. LEVIN, S. R. LOSKUTOV and P. V. MIRONOV
(Siberian Technological Institute, Krasnoyarsk)

A study of the cellulose-water system by multiple techniques: differential thermal analysis, thermogravimetry and differential scanning calorimetry

E. D. LEVIN, P. V. MIRONOV and S. R. LOSKUTOV
(Siberian Technological Institute, Krasnoyarsk)

Thermal analysis of polymers based on laevoglucosan

R. YA. PEHIKIS, B. K. APSITE and V. P. KARLIVAN
(Institute of Wood Chemistry, Academy of Sciences of the Latvian S.S.R., Riga)

A study of the main reactions in the gasification process by thermal analysis

S. P. ROLKIN and A. T. ZORIN
(Institute of Petrochemical and Carbochemical Syntheses at the Zhdanov Irkutskian State University, Angarsk)

Thermal transformations of lignin model substances in the presence of phosphoric acid

G. A. ROSSINSKAYA, G. E. DOMBURG, A. T. CHEBIKOVA and G. V. DOBELE
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Thermoanalytical studies of cellulose films modified with polymethylmethacrylate and polyvinyl acetate

T. A. SAVITSKAYA, F. N. KAPUTSKY, V. A. LYUTSKO and D. D. GRINSHPAN
(Institute of Physicochemical Problems, Lenin Belorussian State University, Minsk)

Investigation of the thermal decomposition of wood components in the presence of sodium metaborate by DTA and electron paramagnetic resonance methods

T. N. SKRIPCHENKO, G. V. DOBELE and G. E. DOMBURG
(Institute of Wood Chemistry, Academy of Sciences of the Latvian S.S.R., Riga)

Results of a study on the spontaneous temperature increase in peat by the DTA method

P. L. FALYUSHIN
(Institute for Peat, Academy of Sciences of the Belorussian S.S.R., Minsk)

Thermal analysis of the carbonization products of some commercial furane resins

G. V. TSITSISHVILI, L. K. KVANTALIANI and D. S. CHIPASHVILI
(Melkishvili Institute of Physical and Organic Chemistry, Academy of Sciences of the Georgian S.S.R., Tbilisi)

Application of combined thermoanalytical methods to humus compounds

V. A. CHERNIKOV, I. M. LUKASHENKO, V. A. KONCHITS and R. A. KHMELNITSKY
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Thermal destruction of cellulose in the presence of boric acid

T. E. SHAPAROVA, G. E. DOMBURG and G. V. DOBELE
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Kinetics of the thermal decarboxylation of humic acids in peat

L. V. SHISHMINA, YA. A. BELIKHMAER and S. I. SMOLYANINOV
(Polytechnical College, Tomsk)

ORGANIC COMPOUNDS

Utilization of thermal analysis for the preparation of ready-for-use drugs from soluble furagin (solafur)

O. N. AKIFEV, YU. SH. GOLDBERG, G. M. GRINBERG and M. V. SHIMANSKAYA
(Institute of Organic Syntheses, Academy of Sciences of the Latvian S.S.R., Riga)

Quantitative thermal analysis of alkaline DL-2-amino-2-phenylacetic acid solutions

A. A. VEGNERE, I. A. FELDMANE and YA. V. VITOL
(All-Union Research Institute of Applied Biochemistry, Latvian S.S.R., Olayne)

Determination of the heat of phase transformation for some classes of organic compounds in the liquid crystal state

G. I. KARPUSHKINA and N. K. SEMENDYAEVA
(Kurnakov Institute of General and Inorganic Chemistry, Academy of Sciences of the U.S.S.R., Moscow)

Investigation of liquid crystals for optical electronics by differential thermal analysis

G. I. KARPUSHKINA, N. K. SEMENDYAEVA, V. M. MOSHIN and YU. P. BOBYLEV
(Kurnakov Institute of General and Inorganic Chemistry, Academy of Sciences of the U.S.S.R., Moscow)

Thermolysis of heteroarylated N-acetyl (acyl) derivatives of quinoline and isoquinoline

N. A. KLYUEV, YU. V. SHURUKHIN, B. A. KONCHITS, R. A. KHMELNITSKY and A. K. SHEYNKMAN
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A study of thermal rearrangements in the sequence of 1-aryl-5-methyltetrazols by combining thermoanalytical and mass-spectroscopical methods

N. A. KLYUEV, YU. V. SHURUKHIN, V. A. KONCHITS, V. A. ZYRYANOV and R. A. KHMELNITSKY
(Timiryazev Agricultural Academy, Moscow)

To the problem of studying the kinetics of phase transformations of organic compounds by DTA

N. P. LUSHINA
(Kuybyshev Polytechnical College, Kuybyshev)

A study of the thermal decomposition of nitroguanidine by scanning calorimetry

A. I. MEDVEDEV, G. V. SAKOVICS and V. V. NOVOSELOV

Investigation of the monotropic polymorphism in solid mesogens by low-temperature DTA and appraisal of the grade of liquid crystal materials

V. A. MOLOCHKO, R. A. LIDIN, Z. A. OLIFERENKO, O. O. CHERNOVA, G. I. KARNPUSHKINA and G. M. KURDYUMOV
(Lomonosov College for the Technology of Chemical Reagents, Moscow)

Application of thermal analysis in the pharmacological industry

V. A. POPKOV, G. P. MATYUSHINA, V. P. MISHIN and YU. K. MEDVENKO
(Sechenov First Medical College, Moscow)

Thermal analysis of glucose and cellulose in the presence of phosphoric acid

G. A. ROSSINSKAYA, G. E. DOMBURG and A. T. CHERBIKOVA
(Institute of Wood Chemistry, Academy of Sciences of the Latvian S.S.R., Riga)

Investigation of the thermal behaviour of aromatic polycarboxylic acids and their derivatives

V. P. SLUGIN, Z. I. KRUTIKOVA and S. V. BOLOTOVA
(Scientific Design Department Karbolit, Kemerovo)

Investigation of the thermal properties of the polymorphic forms of 5(6)-amino-2-(p-amino-phenyl)-benzimidazol and 4,4'-diaminodiphenylsulfon

T. A. SOLDATOVA, G. L. TRUDOROVSKAYA, N. V. NOVOZHILOVA, N. V. SHELTS, L. S. VASHCHILLO and T. A. BELOBRAGINA, A. E. RUDAS and N. V. FEDYAYNOV
(All-Union Research and Design Institute of Monomers, Tula)

A study of the correlation between the physicochemical nature of hydrocarbons and the parameters of their thermoanalytical curves

I. M. TIUNOVA, D. E. DISKINA and K. M. BALSHTOVA
(Kuybyshev Branch of the All-Union Research Institute for Feed Pumps, Novokuybyshevsk)

Thermal analysis of cobalt(III) trans-dioximines with sulfanilamides

V. N. SHAFRANSKY
(Institute of Chemistry, Academy of Sciences of the Moldavian S.S.R., Kishinev)

MINERALS AND MATERIALS OF CONSTRUCTION

Thermal analysis of carbonate rocks from the Bakal-Satkin Area in the Southern Ural

L. V. ANFIMOV, A. M. SULMAN and V. G. PETRISHCHEVA
(Zavaritsky Institute of Geology and Geochemistry, Uralian Scientific Centre of the Academy of Sciences of the U.S.S.R., Sverdlovsk)

Simultaneous DTA and TG for determining the Ca(OH)₂ content in cement clay rock

L. B. BAGDASARYAN
(Research Institute of Construction and Architecture of the State Office for Construction of the Armenian S.S.R., Erevan)

The nature of water and structural changes in the course of heating phillipsite from zeolithic occurrences of volcanic-sedimentary rocks belonging to the Eocene strata in Georgia

T. V. BATNASHVILI
(Dzhanelidze Geological Institute, Academy of Sciences of the Georgian S.S.R., Tbilisi)

A complex study of the thermal destruction of synthetic chrysotile asbestos

B. F. KLUDOV, A. I. BEZENTSEV and A. A. SMOLKOV
(Technological College for Materials of Construction, Belgorod)

Applicability of Soviet-made apparatus (PRT-1000 M, DAGV-70-2 m) for thermal analysis combined with evolved gas volumetry of carbonate rocks

L. M. GOLKIN, N. N. ZEMOVA, D. S. KASHIK, G. V. KULIKOVA and O. A. MIKLUKHO-MAKLAY
(All-Union Institute of Geology, Leningrad)

Specific features of the thermal behaviour of monoclinic amphibols

Z. P. ERSHOVA and R. V. DMITRIEV
(Institute of the Geology of Ore Deposits, Petrography, Mineralogy and Geochemistry, Academy of Sciences of the U.S.S.R., Moscow)

Potentials of quantitative determination of clay minerals by their mass loss at heating (an example presented with a two-component mixture)

N. V. ZAYTSEVA and N. KH. KUDRYAVTSEV
(Institute of Geochemistry and Geophysics, Academy of Sciences of the Belorussian S.S.R., Minsk)

A study of the hydroxyl groups in gypsum by thermal analysis and combinative dispersion

B. A. ZAPOL and M. M. SYCHEV
(Latvian Research Institute of Construction, State Office for Construction of the Latvian S.S.R., Riga)

A thermal study of the formation mechanism of periclase from brucite

B. M. KOBTSEV
(Institute of the Geology of Ore Deposits, Petrography, Mineralogy and Geochemistry, Academy of Sciences of the U.S.S.R., Moscow)

Thermal investigation of some alumofluorides

T. A. KORNEVA and A. D. NOZHKIN
(Institute of Geology and Geophysics, Siberian Department of the Academy of Sciences of the U.S.S.R., Novosibirsk)

A thermoanalytical study of the oxidation of mechanically activated sulfides

V. G. KULEBAKIN, V. V. ALEKSANDROV and V. G. MOROZOV
(Institute of Mining, Siberian Department of the Academy of Sciences of the U.S.S.R., Novosibirsk)

Thermal characteristics of phosphogypsum (a product made of apatite or phosphorite concentrates)

R. O. KUUSIK, A. A. KUUCK, L. P. VIYSIMAYA and M. A. VEYDERMA
(Polytechnical College, Tallin)

To the mechanism of thermal transformations in lithium-iron mica

I. L. LAPIDES
(Institute of Geochemistry, Siberian Department of the Academy of Sciences of the U.S.S.R., Irkutsk)

Water and hydroxyl groups in perlites and obsidians based on data from thermal analysis and proton magnetic resonance

V. V. NASEDKIN, A. M. BONDAR and G. O. PILOYAN
(Institute of the Geology of Ore Deposits, Petrography, Mineralogy and Geochemistry, Academy of Sciences of the U.S.S.R., Moscow)

Investigation of materials of construction by thermal analysis

I. P. PORMAN, O. N. SOSNOVSKAYA and YU. YA. GRANDANO

(Latvian Research Institute of Construction, State Office of Construction of the Latvian S.S.R., Riga)

Thermoanalytical and petrographical investigation of common and magnesitic iron ore agglomerates differing in basicity

YU. M. POTEBNYA, V. I. KAURKOVSKY, R. G. RIKHTER, V. L. TOLSTUNOV and A. G. KARMAZIN

(Technological College, Zaporozhe)

Interaction of sodium, potassium and calcium carbonates and nitrates with muscovite

A. P. PROSHCHOK, L. P. LEBEDEVA and V. P. KARABANOV

(Institute of the Chemistry and Technology of Rare Elements and Mineral Raw Materials, Kolsk Branch of the Academy of Sciences of the U.S.S.R., Apatity)

Thermal analysis of Estonian phosphorites

M. E. PYLDME

(Polytechnical College, Tallin)

On the nature of the exothermic peak of kaolinite

SH. M. RAKHIMBAEV

(Institute of Petroleum and Gas Geology, Ministry of Geology of the Uzbekh S.S.R., Tashkent)

On the thermal behaviour of sheridanite

E. L. ROZINOVA and B. K. KASATOV

(All-Union Geological Institute, Leningrad)

A study on the start of hydration of cements by thermal analysis and combinative dispersion

M. M. SYCHEV, B. A. ZAPOL and I. P. PORMAN

(Latvian Research Institute for Construction, State Office for Construction of the Latvian S.S.R., Riga)

Thermoanalytical investigation of the effect of the initial structure of phosphatic slags on their reactivity with limestone

S. V. TEREKHOVICH, P. P. LERKE and A. P. KHLEBOV

(Kazakh College of Chemical Technology, Chishkent)

Study of the molecular sieve effect in silicate materials by desorptive thermal analysis

D. A. UGINCHUS, O. P. MCHEDLOV-PETROSYAN and YU. P. LIBENKO

(All-Union Research Institute of Hydrogeological Engineering, Kharkov Department)

Application of thermal analysis and X-ray phase analysis for the development of a concentrating technology for secondary tin minerals

A. M. URMANOVA, G. A. SIDORENKO and YU. A. VOEVODIN

(All-Union Institute of Mineral Raw Materials, Moscow)

Effect of the structure of kaolinite crystallites on thermal peaks

YU. G. FEDORENKO, D. Z. RAKHMANGULOVA and E. G. KUKOEVSKY

(Institute of the Geochemistry and Physics of Minerals, Academy of Sciences of the Ukrainian S.S.R., Kiev)

Complex thermal analysis of the synthesis processes of amorphous-crystalline materials

L. G. FILATOV

(Research and Design Institute for Industrial Construction, Kharkov)

Differential thermal analysis of ceramics based on lead-bismuth-potassium titanate

M. K. CHIKANOVA and E. S. VORONTOV
(Polytechnical College, Voronezh)

Differential thermal analysis of the crystallochemical differences between montmorillonites of various genetic types

A. N. SHLYAPKINA and M. V. EYRISH
(All-Union Research Institute of Non-Ore Minerals, Kazan)

Application of thermoanalytical methods for studying the behaviour of some rare earth element mineral concentrates in the technological process

R. N. YUDIN, I. T. ALEKSANDROVA and A. A. MILLIONSHCHIK
(All-Union Institute of Mineral Raw Materials, Moscow)

Investigation of the hardening of gypsum-cement-pozzolana mixtures by thermal analysis

P. M. YAKSTINSH and V. P. PANOV
(Latvian Research Institute of Construction, State Office of Construction of the Latvian S.S.R., Riga)

Application of thermal analysis in the development of a technological process for ferroelectric ceramics

G. D. YANSON
(Polytechnical College, Riga)

SECOND EUROPEAN SYMPOSIUM ON THERMAL ANALYSIS

to be held at the University of Aberdeen, Aberdeen, Scotland
from 1 to 4 September 1981

All aspects of thermal analysis will be covered. The language of the meeting
will be English

Please contact the Chairman of the Organizing Committee of ESTA 2

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SECOND NATIONAL CONFERENCE

with international participation to be held in Rome
from 15–17 December 1980

The President of the Organizing Committee:

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