

Bibliography Section

- ACHESON, R. J., JACOBS, P. W. M. (Univ. Western Ontario, Dept. Chem., London, Ont., Canada): Thermal decomposition of barium perchlorate. *Can. J. Chem.* 47 (1969) 3031
- ABELLO, L., BUGLI, G., NUSINOVICI, J., PANNETIER, G. (Fac. Sci. Lab. Cinétique Chim., CNRS No. 24, Paris 5^e, France): Étude de la réaction à l'état solide du fer pulvérulent sur la sulfate ferreux anhydre. II. — Étude thermochimique. *Bull. Soc. Chim. Fr.* (1969) 3048
- AKKERMAN, O. S. (Vrije Univ., Chem. Lab. Lairesestr. 174, Amsterdam-Z, Netherlands): A thermocouple holder for temperature measurements in variable temperature n.m.r. experiments. The constancy of the variable temperature controller. *Chem. Ind. London* (1969) 1340
- ANDO, W., MATSUYAMA, H., NAKADAIDO, S., MIGITA, T. (Gunma Univ., Dept. Chem., Kiryu, Gunma 376, Japan): The formation of mercaptoacetate in the thermolysis of mercaptomalonate. *Tetrahedron Lett.* (1969) 3825
- ASAHARA, T., SENO, M., FUKUI, M. (Univ. Tokyo, Inst. Ind. Sci., Roppongi, Minatoku, Tokyo, Japan): Kinetic study on thermal degradation of polyimides. II. *J. Chem. Soc. Jap. Ind.* 72 (1969) 1923 (In Japanese)
- ASO, C., KUNITAKE, T., SHINSEIJI, M., MIYAZAKI, H. (Kyuchu Univ., Fac. Eng. Dept. Org. Synthesis, Fukuoka, Japan): Polymerization of vinyl compounds with heterocyclic groups. IV. Thermal polymerization of 2-vinylthiophene. *J. Polymer Sci. A-1*, 7 (1969) 1497
- BARALL, E. M., JOHNSON, J. F., PORTER, R. S. (Chevron Res. Co., Richmond, Calif., 94802 USA): Scanning calorimetry of aromatic difunctional, unsaturated and substituted acid esters of cholesterol. *Mol. Cryst. Liquid Cryst.* 8 (1969) 27
- BECKER, H. D. (Gen. Elect. Co., Res. and Dev. Ctr. Shenectady, N. Y., 12301 USA): Thermal and photochemical addition reactions of organosilicon hydrides. *J. Org. Chem.* 34 (1969) 2469
- BELL, J. P., DUMBLETON, J. H. (Univ. Connecticut, Chem. Eng. Dept., Storrs, Conn., 06268 USA): Relation between melting behavior and physical structure of polymers. *J. Polymer Sci. A-2*, 7 (1969) 1033
- BENDELIANI, N. A., VERESHCHAGIN, L. F. (Acad. Sci. Inst. Phys. High Pressures, Moscow, USSR): Differential thermal analysis at high pressures and temperatures. *Zh. Fiz. Khim.* 43 (1969) 1631 (In Russian)
- BERCHENKO, M. A., BELYAEV, A. I., LESHCHINSKAYA, Z. L. (Steel and Alloys Inst., Moscow, USSR): Determination of standard heat of formation of silver tellurite. *Zh. Fiz. Khim.* 43 (1969) 1403 (In Russian)
- BERÉNYI, M. (Univ. Med. Sci., Dept. Urol., Üllői út 78/b, Budapest 8, Hungary): Platinum and palladium catalyzed oxidation of ammonia under the experimental conditions of differential thermoanalysis (DTA). *Acta Chim. Acad. Sci. Hung.* 61 (1969) 257
- BERG, L. G., PRIBYLOV, K. P., EGUNOV, V. P., ABDURAKHMANOV, R. A.: Thermal iron(III)hydroxide dehydration. *Zh. Neorg. Khim.* 14 (1969) 2303 (In Russian)
- BERLIN, A. A., MIROTVORTSEV, I. I., FIRSOV, A. P., LYAKHIN, V. Y. (Lomonosov Fine Chem. Tech. Inst., Moscow, USSR):

- Inhibition of thermal and photooxidative degradation of cis-1,4-polybutadiene with activated anthracene. *Vysokomol. Soedin Ser. 11* (1969) 1734 (In Russian)
- BERNAND, M. A., BOREL, M. M. (Fac. Sci. Lab. Chim. Minérale B, Caen, France): Étude de quelques dithiocarbamates métalliques. II. — Étude thermo-chimique de quelques dithiocarbamates. *Bull. Soc. Chim. Fr.* (1969) 3066
- BERNAND, M. A., BUSNOT, F. (Fac. Sci. Lab. Chim. Minérale B, Caen, France): Étude thermo-chimique de quelques acétates métalliques. III. — Acétates aminés de manganèse, cobalt, nickel et cuivre. *Bull. Soc. Chim. Fr.* (1969) 3061
- BETHELL, D., NEWALL, A. R., STEVENS, G., WHITTAKER, D. (Univ. Liverpool, Robert Robinson Labs., Liverpool 7, Lancs., England): Intermediates in the decomposition of aliphatic diazo-compounds. Part VII. Mechanisms for formation of benzophenone azine and diphenylmethanol in the thermal decomposition of diphenyldiazomethane. *J. Chem. Soc. B.* (1969) 749
- BLAUER, J. A., MC MATH, H. G., JAYE, F. C. (US AF. Syst. Command, AF. Rocket Prop. Lab., Edwards, Calif., 93523 USA): The thermal dissociation of chlorine trifluoride behind incident shock waves. *J. Phys. Chem.* 73 (1969) 2683
- BLINC, R., O'REILLY, D. E., PETERSON, E. M., WILLIAMS, J. M. (Argonne Natl. Lab., Argonne, Ill., 60439 USA): High-temperature phase transition in RbH_2PO_4 . *J. Chem. Phys.* 50 (1969) 5408
- BOEV, E. I., BENDERSKII, L. A., MILKOV, G. A. (All Union Lumiñophores Inst., Moscow, USSR): Thermal dissociation of chalcogenides of zinc subgroup I. Thermal dissociation of zinc sulfide and selenide. *Zh. Fiz. Khim.* 43 (1969) 1393 (In Russian)
- BOUSQUET, J., DIOT, M., KOOB, A., MATHURIN, D. (Inst. Nat. Sci. Appl. Lyon, Lab. Chim. Minérale, CNRS, 69-Villeurbanne, France): Détermination de la capacité calorifique molaire de l'iodate de baryum entre 10 et 650 °K. *Compt. Rend. Ser. C* 269 (1969) 405
- BRESLOW, D. S., SLOAN, M. F., NEWBERG, N. R., RENFROW, W. B.: Thermal reactions of sulfonyl azides. *J. Am. Chem. Soc.* 91 (1969) 5697
- BRINDLE, I. D., GIBSON, M. S. (Brock Univ., Dept. Chem., St. Catharines, Ont., Canada): Thermal isomerisation of inner salts of allylic amido-ammonium compounds. *J. Chem. Soc. D* (1969) 803
- CAMBI, L., ELLI, M., GIUDICI, E. (Univ. Degli Studi, Milan, Italy): Thermal decomposition of Fe, Co and Ni chalcogenides. *Chim. Ind. Milan* 51 (1969) 795 (In Italian)
- CISMARU, D., DOBROGHU, E. (Inst. Chim. Phys., 23 Str. Dumbraava Rosie, Bucharest, Roumania): The oxidation of zirconium at high temperatures. The oxidation kinetics of zirconium powder in O_2 and CO_2 atmosphere. *Rev. Roum. Chim.* 14 (1969) 291.
- CLARKE, T. A., THOMAS, J. M. (Univ. Coll. N. Wales, Dept. Chem., Bangor, Wales): Kinetic studies of the solid-state decomposition of manganese(II)formate dihydrate. Part I. Microscopic and isothermal gravimetric measurements on single crystals. *J. Chem. Soc. A* (1969) 2227
- CLARKE, T. A., THOMAS, J. M. (Univ. Coll. N. Wales, Dept. Chem., Bangor, Wales): Kinetic studies of the solid-state decomposition of manganese(II)formate dihydrate. Part II. Isothermal and dynamic methods of studying powdered samples. *J. Chem. Soc. A* (1969) 2230
- COINTOT, A., CRUCHAUDET, J., SIMONOT-GRANGE, M. H. (Fac. Sci. Lab. Rech. Reactivité Solides, Dijon 21, France): Mise en oeuvre d'une méthode thermogravimétrique automatique pour le tracé des isostères d'adsorption. *Compt. Rend. Ser. C* 269 (1969) 302
- CURRIE, J. A., BÖHM, G. G. A., DOLE, M. (Villanova Univ., Dept. Mech. Eng., Villanova, Pa., 19085 USA): Calorimetric detection of free radicals in irradiated polyethylene. *Polymer Lett.* 7 (1969) 535
- DALTON, D. R., LIEBMAN, S. A. (Temple Univ., Dept. Chem., Philadelphia, Pa., 19122 USA): Thermal and photolytic decomposition of diarylmethylenetriphenylphosphazines and diaryldiazomethanes. *Tetrahedron* 25 (1969) 3321
- D'AMORE, M. B., BERGMAN, R. G. (Califor-

- nia Inst. Technol., Pasadena, Calif., 91109 USA): Thermal conversion of 1-methyl-1,2-diethynylcyclopropane to 2-methylbicyclo [3.2.0] hepta-1,4,6-triene. *J. Am. Chem. Soc.* 91 (1969) 5694
- DANNLEY, R. L., FARRANT, G. C. (Case Western Reserve Univ., Dept. Chem., Cleveland, Ohio, 44106 USA): The thermal decomposition of organogermanium peroxides and hydroperoxides. *J. Org. Chem.* 34 (1969) 2432
- DEVORE, J. A., O'NEAL, H. E. (Univ. Nevada, Dept. Chem., Reno, Nev., 89507 USA): Heats of formation of the acetyl halides and of the acetyl radical. *J. Phys. Chem.* 73 (1969) 2644
- DEVYATYKH, G. G., KEDYARKIN, V. M., ZORIN, A. D. (Lobachevskii Univ., Gorki, USSR): Thermal phosphine and stibine decomposition. *Zh. Neorg. Khim.* 14 (1969) 2001 (In Russian)
- DICK, J., LUPEA, A. (Techn. Hsch., Pharmazent. Tech. Lab., Timișoara, Roumania) Komplexverbindungen des N,N'-diaminopiperazins. I. Metallchelaterbindungen und ihr thermischer Abbau. *Rev. Roum. Chim.* 14 (1969) 1047
- DROBOT, N. M., KHAZANOV, E. I. (State Univ., Inst. Petr. and Coal Chem. Synth., Irkutsk, USSR): Infrared spectroscopy of thermal decomposition kinetics of aluminium hydroxide. *Zh. Prikl. Khim.* 42 (1969) 1244 (In Russian)
- DUPUPET, G., BASTICK, M. (École Natl. Super Ind. Chim., 1 rue Grandville, Nancy 54, France): Étude microcalorimétrique de l'acidité superficielle des noirs de carbone par adsorption d'ammoniac. *Compt. Rend. Ser. C* 269 (1969) 437
- DVORNIKOVA, L. M., SEVOSTYANOV, V. P., AMBROZHII, M. N. (State Univ., Chem. Inst. Saratov, USSR): Thermal decomposition of dysprosium and gadolinium nitrates. *Zh. Neorg. Khim.* 14 (1969) 2325 (In Russian)
- EBERT, G., STEIN, W. (Univ. Marburg, Inst. Polymere, 355 Marburg-Lahn, GFR): Der Einfluß von Tensiden auf die Superkontraktion und das differentialkalorimetrische Verhalten von Keratinfasern. *Angew. Makromol. Chem.* 7 (1969) 57
- FAGERSON, I. S. (Univ. Massachusetts, Dept. Food Sci. and Technol., Amherst, Mass., 01002 USA): Thermal degradation of carbohydrates. *J. Agr. Food Chem.* 17 (1969) 747
- FIELDS, E. K., MEYERSON, S. (Amoco Chem. Corp., Res. and Dev. Dept., Whiting, Ind., 46394 USA): Reactions of aromatic compounds at high temperatures. *Accounts Chem. Res.* 2 (1969) 273
- FISCHER, H., BARGON, J. (Carnegie Mellon Univ., Mellon Inst., Pittsburgh, Pa., 15213 USA): Chemically induced dynamic nuclear polarization during thermal decomposition of peroxides and azo compounds. *Accounts Chem. Res.* 2 (1969) 110
- FLOTOW, H. E., OSBORNE, D. W., O'HARE, P. A. G., SETTLE, J. L., MRAZEK, F. C., HUBBARD, W. N. (Argonne Natl. Lab., Chem. Div., Argonne, Ill., 60439 USA): Uranium diboride: Preparation, enthalpy of formation at 298.15 °K heat capacity from 1° to 350 °K, and some derived thermodynamic properties. *J. Chem. Phys.* 51 (1969) 583
- GAETA, F. S., CURSIO, N. M. (CNR, Inst. Lab. Genet. and Biophys., Napoli, Italy): Thermogravitational effect in macromolecular solutions. *J. Polymer Sci. A-1*, 7 (1969) 1697
- GALCHENKO, G. L., BRYKINA, E. P., PAVLOVICH, V. K., BUBNOV, Y. N., MIKHAILOV, B. M. (Zelinskii Org. Chem. Inst., Moscow, USSR): Heat of combustion determination of aminodiisobutyl boron. *Zh. Fiz. Khim.* 43 (1969) 2034 (In Russian)
- GARDNER, T. E., TAYLOR, A. R. (US Dept. Interior, Bur. Mines, Met. Res. Lab., Tuscaloosa, Ala., 35486 USA): Thermal properties of barium chloride from 300° to 1530 °K. *J. Chem. Eng. Data* 14 (1969) 281
- GERRITSMAN, K. W., VERWEY, A. M. A. (Free Univ., Chem. Lab., De Lairese str. 174, Amsterdam, Netherlands): Thermal decomposition of some methyl substituted benzhydrols. *J. Chromatogr.* 43 (1969) 391
- GLUKHOEDOV, N. P., KARDASH, I. E., PRAVEDNIKOV, A. N., MEDVEDEV, S. S. (Karpov Phys. Chem. Inst., Moscow, USSR): Photochemical and thermal reac-

- tions between chloranhydrides of acids and aromatic tertiary amines. *Dokl. Akad. Nauk SSSR* 187 (1969) 597 (In Russian)
- GOLBORN, P. (Hooker Chem. Corp., Niagara Falls, N. Y., 14302 USA): Triglyceride composition of lard by differential thermal analysis. *J. Am. Oil Chem. Soc.* 46 (1969) 385
- GRAHAM, D., HASZELDINE, R. N., ROBINSON, P. J. (Univ. Manchester, Inst. Sci. and Technol. Dept. Chem., Manchester, M 60 1 QD England): The kinetics of the reactions of silicon compounds. Part III. Gas-phase unimolecular thermal decomposition of 2,2-difluoroethylmethyldifluorosilane. *J. Chem. Soc. B* (1969) 652
- GRIBOV, B. G., TRAVKIN, N. N., TABRINA, G. M., RUMIANTSEVA, V. P., SALAMATIN, B. A., KOZYRKIN, B. I., PASHINKIN, A. S. Thermal decomposition of the iodide of chromium bisarene compounds. *Dokl. Akad. Nauk SSSR* 187 (1969) 330 (In Russian)
- GRIFFITHS, P. R., SCHUMANN, P. J., LIPPINCOTT, E. R. (Univ. Maryland, Dept. Chem., College Park, Md., 20742 USA): High-temperature equilibria from plasma sources. II. Hydrocarbon system. *J. Phys. Chem.* 73 (1969) 2532
- GRITSAN, V. I., PANFILOV, V. N., BOLDYREV, V. V. (Acad. Sci. Inst. Chem. Kinetics and Combustion, Novosibirsk USSR): Formation of chlorine dioxide in the thermal decomposition of ammonium perchlorate. *Dokl. Akad. Nauk SSSR* 187 (1969) 1082 (In Russian)
- GRÜTZMACHER, H. F., SILHAN, W., SCHMIDT, U. (Univ. Hamburg, Chem. Staatsinst., Hamburg, GFR): Über Phosphinidene, 5: Notiz zum Nachweis von Phenyl- und Methylphosphiniden beim thermischen Zerfall von Cyclophosphinen durch Pyrolyse-Massenspektrometrie. *Chem. Ber.* 102 (1969) 3230
- GUENOT, J., MANOLI, J. M. (Fac. Sci. Lab. Cinet. Chim., CNRS No. 24, Paris 5^e, France): Thermogravimétrie des systèmes solides-gaz. III. — Thermogravimétrie des sels hydratés. Influence des basses pressions. *Bull. Soc. Chim. Fr.* (1969) 2663
- GUENOT, J., MANOLI, J. M., BREGEAULT, J. M. (Fac. Sci. Lab. Cinet. Chim., CNRS No. 24, Paris 5^e, France): Thermogravimétrie des systèmes solides-gaz. IV. — Déshydratation thermique des sulfates de cobalt de zinc hydratés. *Bull. Soc. Chim. Fr.* (1969) 2666
- GUILLEME, J., WOJTKOWIAK, B. (Fac. Sci. Lab. Spectrochim. Molec., 38 boulv. Michelet Nantes, France): Étude thermodynamique de la dissociation ionique des acides carboxyliques α -acétyléniques. I. *Bull. Soc. Chim. Fr.* (1969) 3007
- GUILLEME, J., WOJTKOWIAK, B. (Fac. Sci. Lab. Spectrochim. Molec., 38 boulv. Michelet, Nantes, France): Étude thermodynamique de la dissociation ionique des acides carboxyliques α -acétyléniques. II. *Bull. Soc. Chim. Fr.* (1969) 3013
- GUYOT, A., CUIDARD, R., BARTHOLIN, M. (CNRS, Inst. Rech. Catalyse, Lyon-5, France): Dégradation thermique du polyphényl siloxane cyclolinéaire. *J. Polymer Sci. C* (1969) 785
- HEDVIG, P., KISBÉNYI, M. (Res. Inst. Plast., Budapest 14, Hungary): Alternating current conductometric investigation of the thermal degradation of poly(vinyl chloride). *Angew. Makromol. Chem.* 7 (1969) 198
- HERBSTEIN, F. H. (Israel Inst. Technol. Technion, Dept. Chem., Haifa, Israel): Crystallographic and chemical factors in thermal reactions of solids. *Isr. J. Chem.* 7 (1969) 188
- HERBSTEIN, F. H., RON, G. (Israel Inst. Technol. Technion, Dept. Chem., Haifa, Israel): The thermal decomposition of K_2MnO_4 . *Isr. J. Chem.* 7 (1969) 189
- HEUBNER, U. (Metallgesellschaft A. G., Metall. Lab., Frankfurt-M., GFR): Thermische und elektrische Leitfähigkeit von Vanadinlegierungen zwischen 20 und 650 °C. *J. Nucl. Mater.* 32 (1969) 88
- HOFFMANN, R. W., EICKEN, K. R., LUTTHARDT, H. J., DITTRICH, B. (Techn. Hsch., Inst. Org. Chem., Darmstadt 61, GFR): Thermische Methoxyl-Verschiebungen am 7,7-Dimethoxy-cycloheptatrien. *Tetrahedron Lett.* (1969) 3789
- JOHNSON, J. F., PORTER, R. S., BARALL, E. M. (Univ. Connecticut, Storrs, Conn., 06268 USA): Thermodynamics of mesophase transitions from calorimetric meas-

- urements. *Mol. Cryst. Liquid Cryst.* 8 (1969) 1
- JUDD, M. D., POPE, M. I. (Coll. Technol., Dept. Chem., Portsmouth, Hants., PO1 3QL, England): Formation and surface properties of electron emissive coatings. II. Thermal decomposition and sintering of single alkaline-earth carbonates. *J. Appl. Chem.* 19 (1969) 191
- JUSTICE, B. H. (Texas Instrument Co., Semicond. Components Lab., Dallas, Tex., 75222 USA): Heat capacities and thermodynamic properties of α -beryllium nitride from 25° to 310 °K. *J. Chem. Eng. Data* 14 (1969) 384
- KACZAJ, J., TRICKEY, R. (Borden Inc., Chem. Div. Cent. Res. Lab., Philadelphia, Pa., 19124 USA): Multiple isothermal degradation method for determination of combined vinyl acetate in vinyl acetate-ethylene copolymers. *Anal. Chem.* 41 (1969) 1511
- KARKHANAVALA, M. D., DAROOWALLA, S. H. (Bhabha Atom Res. Ctr., Chem. Div., Trombay, Bombay 74, India): Thermogravimetric study of thallium thorium double carbonate. *J. Indian Chem. Soc.* 46 (1969) 729
- KIRPICHEV, E. P., RUBTSOV, Y. I. (Acad. Sci. Chem. Phys. Inst., Chernogolovka, USSR): Heat of formation determination of 2,4,6-trimethylpyrylium perchlorate. *Zh. Fiz. Khim.* 43 (1959) 2025 (In Russian)
- KIRPICHEV, E. P., RUBTSOV, Y. I. (Acad. Sci. Chem. Phys. Inst., Chernogolovka, USSR): Heat of formation determination of beryllium acetate and hydroxyacetate. *Zh. Fiz. Khim.* 43 (1969) 2029 (In Russian)
- KISS, B. A. (Tungsram, Ind. Res. Inst. Electr. HIKI, Váci út 77, Budapest 4, Hungary): Continuous detection by simultaneous TG and IR measurements of NH_3 and H_2O released in thermal decomposition. *Acta Chim. Acad. Sci. Hung.* 61 (1969) 207; see also *Magy. Kém. Foly.* 75 (1969) 302 (In Hungarian)
- KLUSHINA, T. V., SELIVANOVA, N. M., LAPIN, V. V., ARTEMEVA, L. N.: Heat of formation from simple substances of sodium selenite crystal pentahydrate. *Zh. Prikl. Khim.* 42 (1969) 1510 (In Russian)
- KNYAZEVA, R. N., KURAPOVA, A. P.: Preparation and thermal decomposition of barium hydroorthotellurate. *Zh. Neorg. Khim.* 14 (1969) 2321 (In Russian)
- KOKURIN, A. D. (Lensovet Tech. Inst., Leningrad, USSR): Mechanism of coke and carbon black formations during thermal pyrolysis and diffusion combustion. *Zh. Prikl. Khim.* 42 (1969) 1592 (In Russian)
- KOPECKY, K. R. GILLAN, T. (Univ. Alberta, Dept. Chem., Edmonton, Alb., Canada): Thermal decomposition of optically active unsymmetrical azoalkanes (—)(S)-1,1'-diphenyl-1-methylazomethane. *Can. J. Chem.* 47 (1969) 2371
- KOZHINA, I. I., BOLTOVETS, N. S., BORSHCHEVSKY, A. S., GORYUNOVA, N. A.: The high-temperature investigations of CdGeAs_2 . *Vestn. Leningrad Univ. Fiz. Khim.* (1969) 93 (In Russian)
- KRASHENINNIKOVA, A. A., FURMAN, A. A., KULYASOVA, A. S.: Thermal VCl_4 decomposition kinetics. *Zh. Neorg. Khim.* 14 (1969) 2019 (In Russian)
- KRISHNAMURTI, D., KRISHNAMURTI, Y. K. S., SHASHIDHAR, R. (Univ. Mysore, Dept. Phys., Mysore, India): Thermal, optical, X-ray, infrared and NMR studies on the α -phase of some saturated aliphatic esters. *Mol. Cryst. Liquid Cryst.* 8 (1969) 339
- KUROKAWA, S. (Saga Univ., Fac. Educ., Dept. Chem., Saga, Japan): Thermal exchange between acetyl and methyl groups in the five-membered ring of 3-acetylguaiaculene. *Tetrahedron Lett.* (1969) 3567
- LAMB, R. C., SANDERSON, J. R. (East Carolina Univ., Dept. Chem., Greenville, N. C., 27834 USA): Organic peroxides. VIII. Kinetics and free-radical efficiencies in the thermal decompositions of some mixed isobutyryl-substituted benzoylperoxides. *J. Am. Chem. Soc.* 91 (1969) 5034
- LAPTEV, D. M. (Met. Inst., Novokuznetsk, USSR): Application of statistical theories of concentration type for phase diagram calculations. I. Heat of melting. *Zh. Fiz. Khim.* 43 (1969) 1973 (In Russian)
- LEBEDEVA, N. D., DNEPROVSKII, A. S., KATINY, Y. A. (State Appl. Chem. Inst., Leningrad, USSR): Heat of combustion and formation enthalpy of benzoyl cyanide of ω -cyanacetophenone and β -cyanopro-

- piophenone. *Zh. Fiz. Khim.* 43 (1969) 1380 (In Russian)
- LEPIN, L. K., SHAKALINE, A. I., BREITSIS, V. B. (Polytech. Inst., Riga, LASSR): A thermographic study of partially hydrolyzed lithium tetrahydridealuminatate preparations. *Dokl. Akad. Nauk SSSR* 187 (1969) 1068 (In Russian)
- LE VAN, M., PERINET, G. (CNRS Ctr. Rech. Microcalorimetria et thermochimie Marseille 3^e, France): Les enthalpies normales de formation des carboxylates et des sels d'oxacides. I. — Mesures calorimétriques des enthalpies de formation des carboxylates de cobalt, de nickel et de cuivre. *Bull. Soc. Chim. Fr.* (1969) 2681
- LIPTAY, G., PAPP-MOLNÁR, E., RUFF, F., BURGER, K. (Techn. Univ., Appl. Chem. Inst., Egri József u. 20—22, Budapest 11, Hungary): Thermal investigation of metal complexes. II. *Magy. Kém. Foly.* 75 (1969) 420 (In Hungarian)
- LIPSKA, A. E., WODLEY, F. A. (US Naval Radiol. Def. Lab., San Francisco, Calif., 94135 USA): Isothermal pyrolysis of cellulose: Kinetics and gas chromatographic mass spectrometric analysis of the degradation products. *J. Appl. Polymer Sci.* 13 (1969) 851
- LÓRÁNT, B. (Lebensmitteluntersuchung Hauptstadt, Városház u. 9—11, Budapest 5, Hungary): Derivatographische Untersuchung von in geschmolzener Phase ablaufenden Reaktionen. II. Reaktionen mit Metaphosphat, Borsäure und Natriumcarbonat. *Z. anal. Chem.* 246 (1969) 320
- LUMME, P., VUOKILA, O. (Univ. Jyväskylä, Dept. Chem., Jyväskylä, Finland): Thermogravimetric studies. XIII. Thermal stability and kinetics of decomposition of hydrated cobalt(II), nickel(II) and manganese(II) chlorides, bromides and iodides in dynamic oxygen atmospheres. *Suomen Kemistilehti* 42 (1969) 306
- LYALIKOV, Y. S., KITOVSKAYA, M. I.: Thermogravimetric investigation of zineb and some products of its decomposition. *Ukr. Khim. Zh.* 35 (1969) 719 (In Russian)
- MACKLE, H., MCNALLY, D. V. (Queens Univ., Dept., Chem., Belfast, N. Ireland): Studies in the thermochemistry of sulphones, Part 12 — Thermochemistry of the butadiene and isoprene sulphones. *Trans. Faraday Soc.* 65 (1969) 1738
- MACKLE, H., MCNALLY, D. V., STEELE, W. V. (Queens Univ., Dept. Chem., Belfast, N. Ireland): Studies in the thermochemistry of sulphones. Part 10. — Heats of combustion and formation of several $\alpha\beta$ -unsaturated sulphones. *Trans. Faraday Soc.* 65 (1969) 2060
- MACKLE, H., STEELE, W. V. (Queens Univ., Dept. Chem., Belfast, N. Ireland): Studies in the thermochemistry of organic sulphites and sulphates. Part 1. — Heats of combustion and formation of some dialkyl sulphites and sulphates. *Trans. Faraday Soc.* 65 (1969) 2053
- MACKLE, H., STEELE, W. V. (Queens Univ., Dept. Chem., Belfast, N. Ireland): Studies in the thermochemistry of sulphones. Part 11. — Heats of combustion and formation of several $\beta\gamma$ - and $\gamma\beta$ -unsaturated sulphones. *Trans. Faraday Soc.* 65 (1969) 2069
- MACKLE, H., STEELE, W. V. (Queens Univ., Dept. Chem., Belfast, N. Ireland): Studies in the thermochemistry of sulphones. Part 12. — Heats of combustion and formation of some aryl-propargyl and propadiene sulphones. *Trans. Faraday Soc.* 65 (1969) 2073
- MALINGER, M., BRANDŠTET, J., HULEJA, J. (VUT, Katedra Chem., Brno, Czechoslovakia): The use of Czechoslovakian thermistors in thermometric analysis. *Chem. Listy* 63 (1969) 931 (In Czech)
- MALININ, G. V., TOLMACHEV, Y. M.: Atomic oxygen separation during thermal decomposition of oxides. *Zh. Fiz. Khim.* 43 (1969) 2012 (In Russian)
- MALKOVA, A. S., SUVOROV, A. V.: Calorimetric determination of heat of formation of aluminium and antimony bromides. *Zh. Neorg. Khim.* 14 (1969) 1998 (In Russian)
- MANNING, W. R., HUNTER, O. (Iowa State Univ., Inst. Atom Res., Ames, Iowa, 50010 USA): Elastic properties of polycrystalline yttrium oxide, holmium oxide, and erbium oxide: High-temperature measurements. *J. Am. Ceram. Soc.* 52 (1969) 492
- MARICONDI, C., SWIFT, W., STRAUB, D. K. (Univ. Pittsburgh, Dept. Chem., Pittsburgh, Pa., 15213 USA): Thermomagne-

- tic analysis of hemin and related compounds. *J. Am. Chem. Soc.* 91 (1969) 5205
- MC CARTHY, G. J., WITHE, W. B., ROY, R. (Pennsylvania State Univ., Mat. Res. Lab., University Park, Pa., 16802 USA): Phase equilibria in the 1375 °C isotherm of the system Sr—Ti—O. *J. Am. Ceram. Soc.* 52 (1969) 463
- MC GEE, T. H., WARING, C. E. (Univ. Connecticut, Dept. Chem., Storrs, Conn., 06268 USA): The kinetics of the thermal decomposition of hexafluoroazomethane and the reaction of CF₃ radicals with methyl ethyl ketone. *J. Phys. Chem.* 73 (1969) 2838
- MELNICK, A. M., NOLAN, E. J. (Gen. Elect. Co., Valley Forge, Pa., USA): The design and development of a high-heating-rate thermogravimetric analyzer suitable for use with ablative plastics. *J. Macromol. Sci. Chem. A* 3 (1969) 641
- MICHEL, A., BERT, M., GUYOT, A. (CNRS Inst. Rech. Catalyse, Lyon-Villeurbanne, France): Greffages mechanochimiques sur le polychlorure de vinyle. III. Stabilité thermique des polymères modifiés. *J. Appl. Polymer Sci.* 13 (1969) 945
- MILLER, W. J., KOESTER, W. H., FREEBERG, F. E. (Procter and Gamble Co., Cincinnati, Ohio, 45224 USA): The measurement of fatty solids by differential scanning calorimetry. *J. Am. Oil. Chem. Soc.* 46 (1969) 341
- MILLER, G. W., SAUNDERS, J. H. (E. I. du Pont Nemours and Co., Inst. Prod. Div., Wilmington, Del., 19898 USA): The thermal analysis of polymers. II. Thermo-mechanical analysis of segmented polyurethane elastomers. *J. Appl. Polymer Sci.* 13 (1969) 1277
- MIRONOV, V. A., IVANOV, A. P., KIMELFELD, Y. M., PETROVSKAYA, L. I., AKHREM, A. A. (Acad. Sci. Zelinsky Inst. Org. Chem., Moscow, USSR): Cyclic unsaturated compounds. — XXXVIII. The thermal rearrangements of spiro [4,4]nona 1,3-diene. *Tetrahedron Lett.* (1969) 3347
- MIROSHNICHENKO, E. A., ZADONTSEV, B. G., LEBEDEV, Y. A., CHERKASHIN, M. I., BERLIN, A. A. (Acad. Sci. Chem. Phys. Inst., Moscow, USSR): Thermochemical studies of copolymers and block copolymers containing polyvinylene blocks in their systems. *Izv. Akad. Nauk SSSR Ser. Khim.* (1969) 1505 (In Russian)
- MOKRZAN, J., TANIEWSKA-OSIŃSKA, S., ŁAŻNIEWSKI, M. (Univ. Lodz, Dept. Phys. Chem., Lodz, Poland): Calorimetric determination of equilibrium constant and enthalpy of dissociation of benzoic acid dimers in benzene. *Rocz. Chem.* 43 (1969) 1523 (In Polish)
- MORI, F., SANO, K., MATSUDA, H., MATSUDA, S. (Osaka Univ., Fac. Eng., Yamadakami, Osaka, Japan): Reaction between dialkyltin oxide and esters of acetic acid or higher alcohols and thermal decomposition of dialkyltin dialkoxide. *J. Chem. Soc. Jap. Ind.* 72 (1969) 1543 (In Japanese)
- MOROZOV, A. I., KARLOVA, E. V.: Thermal stability of tantalum oxytrichloride and dioxychloride. *Zh. Neorg. Khim.* 14 (1969) 1741 (In Russian)
- NABAR, M. A., CALVERT, L. D., WHALLEY, E. (Chem. Technol. Dept., Matunga Road, Bombay 19, India): X-ray and thermal analysis of quenched ammonium fluoride II and III: Three new phases. *J. Chem. Phys.* 51 (1969) 1353
- NOGTEVA, V. V., PAUKOV, I. E., YAREMBASH, E. I. (Kurnakov Gen. and Inorg. Chem. Inst., Moscow, USSR): True heat capacity of chalcogenides of rare earth elements at low temperatures. IV. True heat capacity at low temperatures. La₂Te₃ entropy and enthalpy. *Zh. Fiz. Khim.* 43 (1969) 2118 (In Russian)
- NEUMANN, A. W., SELL, P. J. (Fraunhofer Gesell., Inst. Physik., 6761 Marienthal-P, GFR): Oberflächen- und Volumeneigenschaften von Cholesterylestern homologer Fettsäuren II. Temperaturabhängigkeit der Oberflächenspannung. *Z. Phys. Chem. Frankfurt* 65 (1969) 19
- NURULLAEV, N. G., KOSTRYUKOV, V. N., MOSIN, A. M.: Heat capacity and thermodynamic functions of tetraphenylsilane at low temperatures. *Zh. Fiz. Khim.* 43 (1969) 2143 (In Russian)
- OBATA, H., OGAWA, S. (Text. Res. Inst. Japanese Govt., Kanagawa-ku, Yokohama, Japan): Thermal stabilities of homopolymers of amino acids. *J. Polymer Sci. A-1*, 7 (1969) 1415

- OSUGI, J., TANAKA, Y. (Kyoto Univ., Fac. Sci. Dept. Chem., Sakyo-ku, Kyoto-shi, Japan): Polymorphic transition in ZnP_2 at high temperature and high pressure. *J. Chem. Soc. Jap. Pure* 90 (1969) 618 (In Japanese)
- PASSENHEIM, B. C., MCCOLLUM, D. C. (Gulf Gen. Atom., San Diego, Calif., USA): Heat capacity of RuO_2 and IrO_2 between 0.54° and 10 °K. *J. Chem. Phys.* 51 (1969) 320
- PATRASSI, E. (European Inst. Transuranium Elements, Karlsruhe, GFR): Answer to a comment on the thermal conductivity of uranium dioxide at very high thermal gradients. *J. Nucl. Mater.* 31 (1969) 356
- PAUKOV, I. E., LAVRENTEVA, M. N.: Heat capacity at low temperatures, absolute entropy and enthalpy of $Li_2SO_4 \cdot H_2O$ at standard conditions. *Zh. Fiz. Khim.* 43 (1969) 1390 (In Russian)
- PAUKOV, I. E., NOGTEVA, V. V., STRELKOV, P. G.: True heat capacity of black crystalline phosphorus and metallic arsenic in temperature region of 13–300 °K. *Zh. Fiz. Khim.* 43 (1969) 1385 (In Russian)
- PAUL, R. C., PARKASH, R., AHLUWALIA, C. S. (Panjab. Univ., Dept. Chem., Chandigarh 14, India): Part VII. Heats of reaction of boron and aluminium halides with anthrones. *J. Indian Chem. Soc.* 46 (1969) 525
- PAUKOV, I. E.: True heat capacities at lower temperatures. Absolute entropy and enthalpy of lithium and potassium sulfates. *Zh. Fiz. Khim.* 43 (1969) 2021 (In Russian)
- PAUKOV, I. E., LAVRENTEVA, M. N.: True heat capacity at low temperatures. Absolute entropy and enthalpy in standard Na_2SO_4 conditions. Form III. *Zh. Fiz. Khim.* 43 (1969) 2116 (In Russian)
- PAUKOV, I. E., LAVRENTEVA, M. N., ANISIMOV, M. P.: Heat capacity at low temperatures. Absolute entropy and enthalpy in standard CsBr conditions. *Zh. Fiz. Khim.* 43 (1969) 2120 (In Russian)
- PAULIK, F., BUZÁGH-GERE, É., ERDEY, L. (Techn. Univ., Inst. Allg. and Anal. Chem., Gellért-tér 4, Budapest 11, Hungary): Derivatographische Untersuchung des Magnesiumammoniumphosphats. *Acta Chim. Acad. Sci. Hung.* 61 (1969) 29
- PAULIK, F., ERÓSS, K., PAULIK, J. (Techn. Univ., Inst. Gen. and Anal. Chem., Gellért-tér 4, Budapest 11, Hungary): Investigation of the composition and crystal structure of bone salt by derivatography and infrared spectrophotometry. *Z. Physiol. Chem.* 350 (1969) 418
- PAWEL, R. E., CAMPBELL, J. J. (Oak Ridge Natl. Lab., Met. and Ceramics Div., Oak Ridge, Tenn., 37830 USA): Stress generation during high-temperature oxidation I. Oxygen solution effects. *J. Electrochem. Soc.* 116 (1969) 828
- POLEZHAEV, Y. M., ALYAMOVSKAYA, K. V., CHUKHANTSEV, V. V. (Kirov Polytech. Inst., Sverdlovsk, USSR): Thermal decomposition of sodium and potassium zirconosilicates. *Zh. Neorg. Khim.* 14 (1969) 2277 (In Russian)
- POLONIO, J. B., LÓPEZ, R. M. R., ROSADO, J. A., (CSIC Inst. Quím. Inorg., Madrid, Spain): Uranyl benzoate complexes. I. Thermal analysis, X-ray data and infrared spectroscopy study of uranyl benzoate ammonium-dioxotribenzoate-uranate(VI) and dioxodibenzoate-benzoic-uranium(VI). *An. Chim. Química* 65 (1969) 545
- POLYACHENOK, O. G., POLYACHENOK, L. D., SONIN, V. I. (Tech. Inst., Minsk, BESSR): Thermal stability of lower titanium, zirconium and hafnium chlorides. *Zh. Fiz. Khim.* 43 (1969) 1920 (In Russian)
- PRESTON, J., SMITH, R. W., BLACK, W. B., TOLBERT, T. L. (Chemstrand Res. Ctr. Inc., Durham, N. C., 27702 USA): Thermally stable fiber and film from the polyterephthalamide of 4,4'-diaminobenzanilide. *J. Polymer Sci. C* (1969) 855
- PRICE, C. C., YUKUTA, T. (Univ. Pennsylvania, Dept. Chem., Philadelphia, Pa., 19104 USA): The thermal decomposition of dimyl ion in dimethyl sulfoxide. *J. Org. Chem.* 34 (1969) 2503
- PROKIPCAK, J. M., FORTE, P. A., LENNOX, D. D. (Univ. Guelph, Dept. Chem., Guelph, Ont., Canada): Thermal decomposition of alkyl N-(o-nitrophenyl)carbamates: A novel synthesis of benzofurazan. *Can. J. Chem.* 47 (1969) 2482
- PUDOVIK, A. N., ALADZHEVA, I. M., KOTOVA, V. G., ZINKOVSKII, A. F. (Arbuzov Org. and Phys. Chem. Inst., Kazan, USSR):

- Synthesis and thermal isomerization of N-phenylimidodiphosphoric acid esters. *Zh. Obshch. Khim.* 39 (1969) 1528 (In Russian)
- RELAN, P. S., BHATTACHARYA, P. K. (Vikram Univ., Dept. Chem., Ujjain, India): Thermodynamics of chromium and manganese complexes. *J. Indian Chem. Soc.* 46 (1969) 535
- REMIZOV, V. G., IVANOV-EMIN, B. N., KOROTAEVA, L. G.: Thermal stability of double scandium and alkali metal sulfates. *Zh. Neorg. Khim.* 14 (1969) 2362 (In Russian)
- RETTING, W. (Badische Anilin und Soda Fabrik A. G., Ludwigshafen, GFR): Zur Abhängigkeit der mechanischen Eigenschaften von Thermoplasten von ihrer thermischen Vorgeschichte. *Angew. Makromol. Chem.* 8 (1969) 87
- REVCOLEVSCHI, A., HUBERT, J., COLLONGUES, R. (Ctr. Études Chim. Met., 15 rue Georges-Urbain, 94-Vitry Seine, France): Sur la réalisation d'une chambre de diffraction X à haute température et sur l'une de ses applications. *Compt. Rend. Ser. C* 269 (1969) 265
- REZNITSKI, L. A., KHOMYAKOV, K. G., KORZHUKOV, N. G., OREL, S. E. (Lomonosov Univ., Chem. Fac., Moscow, USSR): Calorimeter for determining true ferrite heat capacity from 300 to 1000 °K. *Zh. Fiz. Khim.* 43 (1969) 2165 (In Russian)
- RODE, V. V., BONDARENKO, E. M., KORSHAK, V. V., VINOGRADOVA, S. V., TUR, D. R. (Acad. Sci. Inst. Org. Elemental Cpds., Moscow, USSR): Thermal degradation of poly-[2,5-(4,4-diphenylene-phtalide)-1,3,4-oxadiazol]. *Izv. Akad. Nauk SSSR Ser. Khim.* (1969) 1509 (In Russian)
- RUBTSOV, Y. I., KIRPICHEV, E. P., MANELIS, G. B. (Acad. Sci. Chem. Phys. Inst., Chernogolovka, USSR): Enthalpy of formation of aluminium hydride derivatives. *Zh. Fiz. Khim.* 43 (1969) 1415 (In Russian)
- RÜCKER, G. (Univ. Münster, Inst. Pharmazeut. Chem., Münster, GFR): Zur Struktur des Nardosinons, II: Die Struktur des thermischen und alkalischen Spaltproduktes. *Chem. Ber.* 102 (1969) 2697
- RYABOV, A. N., ZHITNIKOVA, V. M.: Thermal dissociation of potassium hexachlororuthenate. *Zh. Neorg. Khim.* 14 (1969) 1871 (In Russian)
- SAPPOK, R., BOEHM, H. P. (Univ. Heidelberg, Anorg. Chem. Inst., Heidelberg, GFR): Vermeidung von Konvektion in Thermo-Mikrowaagen. *Chem. Ing. Techn.* 41 (1969) 829
- SAVIN, V. D., NIKITIN, A. E., OKURTSOV, S. V., OGORADNOVA-ZAKHAROVA, N. V.: Determination of heats of mixing of titanium di- and trichloride with sodium chloride in melts. *Zh. Neorg. Khim.* 14 (1969) 2071 (In Russian)
- SAVIN, V. D., NIKITIN, A. E., OKURTSOV, S. V., OGORADNOVA-ZAKHAROVA, N. V.: Heat of formation of "black salt" in sodium chloride melts. *Zh. Neorg. Khim.* 14 (1969) 2075 (In Russian)
- SCHORR, J. R., EVERHART, J. O. (Columbia Gas Syst. Serv. Corp., Columbus, Ohio, 43212 USA): Thermal behavior of pyrite and its relation to carbon and sulfur oxidation in clays. *J. Am. Ceram. Soc.* 52 (1969) 351
- SEIFERT, H. J., LANGENBACH, U. (Justus Liebig Univ., Inst. Anorg. und Anal. Chem., Giessen, GFR): Thermoanalytische und röntgenographische Untersuchungen an Systemen Alkalichlorid/Calciumchlorid. *Z. Anorg. Allg. Chem.* 368 (1969) 36
- SELIVANOVA, N. M., ZALOGINA, E. A. (Mendeleev Chem. Tech. Inst., Moscow, USSR): Heats of formation of potassiumaluminum sulfate and selenate alum. *Zh. Fiz. Khim.* 43 (1969) 2143 (In Russian)
- SELL, P. J., NEUMANN, A. W. (Fraunhofer Gesell., Inst. Physik, 6761 Marienthal-P, GFR): Oberflächen- und Volumeneigenschaften von Cholesterylestern homologer Fettsäuren. I. Differentialthermoanalyse und Polarisationsmikroskopie. *Z. Phys. Chem. Frankfurt* 65 (1969) 13
- SHAULOV, A. K., FEDOROV, A. K., MOSIN, A. M. (Electr. Machine Const. Inst., Moscow, USSR): Calculation of heats of formation of methyl and ethylchlorogermans. *Zh. Fiz. Khim.* 43 (1969) 1906 (In Russian)
- SHCHEGROV, L. N., PECHKOVSKII, V. V., DZYUBA, E. D. (Kirov Tech. Inst., Minsk. BESSR): Thermal dehydration of secondary cobalt phosphate. *Dokl. Akad. Nauk BESSR* 13 (1969) 607 (In Russian)
- SHEREMETEVA, T. V., GUSINSKAYA, V. A., FEDOROVA, E. F., POKROVSKY, E. I. (Akad.

- Sci. Inst. Macromol. Cpds., Leningrad, USSR): On the thermal degradation of polysuccinamides. *Izv. Akad. Nauk SSSR Ser. Khim.* (1969) 1513 (In Russian)
- SHIDLOVSKII, A. A., VOSKRESENSKII, A. A. (Chem. Machine Const. Inst., Moscow, USSR): Electric heater with low thermal inertia for calorimeters. *Zh. Fiz. Khim.* 43 (1969) 2169 (In Russian)
- SHIEH, C. F., McNALLY, D., BODY, R. H. (Utah State Univ., Dept. Chem., Logan, Utah, 84321 USA): The heats of combustion and strain energies of some cyclophanes. *Tetrahedron* 25 (1969) 3653
- SILLION, B., DE GAUDMARIS, G. (Cen. Inst. Français Petrole, Grenoble, France): Polymères thermostables, VI. Les polyarylénes-aryl-2-quinazolones et polymères apparentes. *J. Polymer Sci. C* (1969) 827
- SIMON, J., BALOGH, K., PETRUCZ, K., ERDEY, L. (Tech. Univ., Inst. Gen. and Anal. Chem., Gellért tér 4, Budapest 11, Hungary): Thermal analysis of dental calculi and duct calculi. *Per. Polytech. Chem. Eng.* 12 (1968) 395
- SKURATOV, C. M., KOZINA, M. P., TIMOFEEVA, L. P., BELIKOVA, N. A., PLATE, A. F. (Lomonosov State Univ., Moscow, USSR): Heats of combustion, formation, isomerization and hydrogenation of 2-methylenebicyclo-(2,2,1)-heptane and mixture of exo- and endo-5-methylbicyclo-(2,2,1)-heptene-2. *Dokl. Akad. Nauk SSSR* 187 (1969) 343 (In Russian)
- SOKHOR, M. I., VITOL, V. D. (All Union Abrasives Inst., Moscow, USSR): X-ray diffraction study of thermal expansion of powders of synthetic and natural diamonds. *Kristallografiya* 14 (1969) 734 (In Russian)
- SOLYMOSSI, F., BÁNSÁGI, T. (Univ. Szeged, Acad. Sci. Gas Kinetics Res. Grp., Szeged, Hungary): Stability of ammonium halates in the solid state. Kinetic investigation of the thermal decomposition and ignition of ammonium chlorate. *Combust. Flame* 13 (1969) 262
- SOLYMOSSI, F., JÁKY, K., SZABÓ, Z. G. (Univ. Szeged, Acad. Sci. Gas Kinetics Res. Grp., Szeged, Hungary): The effect of thermal pretreatment on the reactivity of Fe_2O_3 . *Z. Anorg. Allg. Chem.* 368 (1969) 211
- SONODA, A., MORITANI, I., SARAIE, T., WADA, T. (Osaka Univ., Fac. Eng. Sci., Dept. Chem., Osaka, Japan): Reactions of ferrocenyl carbene-I. Thermal decomposition of acylferrocene tosylhydrazone sodium salt. *Tetrahedron Lett.* (1969) 2943
- SOROKIN, G. A., TISHUNIN, I. V., FOMINYKH, E. N.: Thermographic studies of plasticized nitrocellulose. *Vysokomolekul. Soedin Ser. B* 11 (1969) 522 (In Russian)
- STILL, R. H., JONES, P. B. (Hatfield Polytech., Dept. Chem. Sci., Hatfield, Herts., England): Thermal degradation of polymers. Part IV. Vacuum pyrolysis of poly-(m-aminostyrene). The residue and the fraction volatile at pyrolysis temperature, involatile at room temperature. *J. Appl. Polymer Sci.* 13 (1969) 1555
- STRELLA, S., ERHARDT, P. F. (Xerox Corp., Res. Labs., Webster, N. Y., 14580 USA): Rate effects in the measurement of polymer transitions by differential scanning calorimetry. *J. Appl. Polymer Sci.* 13 (1969) 1373
- SZABÓ, J., LUFT, G., STEINER, R. (Techn. Hsch., Inst. Chem. Technol., Darmstadt, GFR): Anwendung der Differentialthermoanalyse zu reaktions-kinetischen Untersuchungen von Hochdruckreaktionen. *Chem. Ing. Tech.* 41 (1969) 1007
- TAKEUCHI, T., YAMAZAKI, M. (Nagoya Univ., Fac. Eng. Dept. Synt. Chem., Nagoya, Japan): Thermometric titration of primary aromatic amines by diazotization using differential thermistor. *J. Chem. Soc. Jap. Ind.* 72 (1969) 1500 (In Japanese)
- THORNTON, A. C. R., SKINNER, H. A. (Univ. Manchester, Chem. Dept., Manchester, Lancs., England): Microcalorimetric studies. Part 2 — Enthalpies of reaction of Cu(II), Ni(II) and Zn(II) with glycine, serine, threonine and histidine. *Trans. Faraday Soc.* 65 (1969) 2044
- TOMCHINA, L. F., ZAVLIN, P. M., RAZUMOVSKII, V. V. (Bonch Bruevich Electrotech. Commun. Inst., Leningrad, USSR): Thermal conversion of methylphosphonic acid amido-esters. II. Kinetics of thermal conversions of methylphosphonic acid phenyl ester arylamides. *Zh. Obshch. Khim.* 39 (1969) 1256 (In Russian)

- TSIKLIS, D. S., LINSHITS, L. R., TSIMMERMAN, S. S. (State Nitrogen Ind. Inst., Moscow, USSR): Measurement and calculation of molar carbon dioxide volumes at high pressures and temperatures. *Zh. Fiz. Khim.* 43 (1969) 1919 (In Russian)
- TSUCHIYA, Y., SUMI, K. (Natl. Res. Coun. Canada, Div. Bldg. Res., Ottawa, Ont., Canada): Thermal decomposition products of polypropylene. *J. Polymer Sci. A-1*, 7 (1969) 1599
- TSUCHIYA, R., KAJI, Y., UEHARA, A., KYUNO, E. (Kanazawa Univ., Fac. Sci. Dept. Chem., Kanazawa, Japan): Derivatographic studies on transition metal complexes. I. Deaquation-anation reaction of aquopentaamminechromium(III) complexes. *Bull. Chem. Soc. Jap.* 42 (1969) 1881
- TSUCHIYA, R., UEHARA, A., KYUNO, E. (Kanazawa Univ., Fac. Sci. Dept. Chem., Kanazawa, Japan): Derivatographic studies on transition metal complexes. II. Thermal reaction in the solid state of chromium(III) and cobalt(III) aquo-EDTA-like complexes. *Bull. Chem. Soc. Jap.* 42 (1969) 1886
- VAN DER VEN, S., DE WIT, W. F. (Shell Res. N.V., Koninklijke Lab., Amsterdam, Netherlands): Thermal degradation of poly(vinyl chloride): The accelerating effect of hydrogen chloride. *Angew. Makromol. Chem.* 8 (1969) 143
- VARGIN, V. V., PEVZNER, B. Z. (Effect of temperature and heat treatment time on chemical stability of glass-enamel (powder samples). III. *Zh. Prikl. Khim.* 42 (1969) 1654 (In Russian)
- VASILKOVA, I. V., PODZOROV, B. N., SHAPKIN, P. S.: Determination of heat capacity of titanium chlorides. *Zh. Neorg. Khim.* 14 (1969) 1732 (In Russian)
- VASSERMAN, A. A., SERDYUK, L. S. (Naval Eng. Inst., Odessa, UKSSR): Using experimental thermal and caloric data for a composition of state equations on computers. *Zh. Fiz. Khim.* 43 (1969) 1916 (In Russian)
- WADA, K., ENOMOTO, Y., MUNAKATA, K. (Nagoya Univ., Fac. Agric., Lab. Pesticide Chem., Nagoya, Japan): Thermal rearrangement of shiromodiol-monoacetate. *Tetrahedron Lett.* (1969) 3357
- WANG, T. T., KWEI, T. K. (Bel. Tel. Labs. Inc., Murray Hill, N. J., 07974 USA): Effect of induced thermal stresses on the coefficients of thermal expansion and densities of filled polymers. *J. Polymer Sci. A-2*, 7 (1969) 889
- WEIFFENBACH, C. K., GRIFFITHS, P. R., SCHUHMANN, P. J., LIPPINCOTT, E. R. (Univ. Maryland, Dept. Chem., College Park, M. D., 20742 USA): High-temperature equilibria from plasma sources. I. Carbon-hydrogen-oxygen systems. *J. Phys. Chem.* 73 (1969) 2526
- WELTNER, M. (Elect. Energy Res. Inst., Budapest, Hungary): A derivatographic study of processes occurring during the storage of coal. *Magy. Kém. Foly.* 75 (1969) 359 (In Hungarian)
- WILDS, A. L., TREBRA, R. L., WOOLSEY, N. F. (Univ. Wisconsin, Dept. Chem., Madison, Wis., 53706 USA): Preparation and reactions of diazo ketones. V. Normal and abnormal products from thermal Wolff rearrangement of 9-phenylfluorene-9-carbonyldiazomethane. *J. Org. Chem.* 34 (1969) 2401
- WOLLWAGE, P. C., SEIB, P. A. (Inst. Paper Chem., Appleton, Wis., 54911 USA): Thermal degradation of 2-o-methylcellulose. *Carbohydr. Res.* 10 (1969) 589
- WOOD, L. J., BADACHHAPE, R. B., LAGOW, R. J., MARGRAVE, J. L. (Rice Univ. Dept. Chem., Houston, Tex., 77001 USA): The heat of formation of poly(carbon monofluoride). *J. Phys. Chem.* 73 (1969) 3139
- ZEMANOVA, D., NOVÁK, J. (Acad. Sci. Výzkumný Ústav Kovů, Prague, Czechoslovakia): High-temperature methods in the chemical analysis of inorganic substances. *Chem. Listy* 63 (1969) 889 (In Czech)
- ZMBOV, K. F., UY, O. M., MARGRAVE, J. L. (Rice Univ., Dept. Chem., Houston, Tex., 77001 USA): Mass spectrometric studies at high temperatures. XXXI. Stabilities of tungsten and molybdenum oxyfluorides. *J. Phys. Chem.* 73 (1969) 3008
- YAGFAROV, M. S. (Abruzov Org. and Phys. Chem. Inst., Kazan, USSR): A new

- method for heat capacity and thermal effect measurements. *Zh. Fiz. Khim.* 43 (1969) 1620 (In Russian)
- YASKELYAINEN, E. I., EFIMOV, A. I., SANDLER, R. A.: Heats of formation of K_3TiCl_6 coordination compounds. *Zh. Neorg. Khim.* 14 (1969) 1753 (In Russian)
- YOGANARASIMHAN, S. R., JAIN, R. C. (Indian Inst. Technol. Dept. Chem., New Delhi 29, India): Preparation, characterization and thermal decomposition of zinc azide. *Indian J. Chem.* 7 (1969) 808
- YATES, B. L., QUIJANO, J. (Univ. Del Valle, Dept. Quim., Cali, Colombia): Thermal decomposition of β -hydroxy ketones. *J. Org. Chem.* 34 (1969) 2506