

Bibliography Section

- ABDULLAEV, A. B., ISMATOV, K. R.: Effect of water vapor on nitric acid complete regeneration during thermal decomposition of aluminium nitrate monohydrate. *Zh. Prikl. Khim.* 43 (1970) 166 (In Russian)
- ANDON, R. J., COUNSELL, J. F., LEES, E. B., MARTIN, J. F. (Natl. Phys. Lab., Div., Chem. Stand., Teddington, Middx., England): Thermodynamic properties of organic oxygen compounds. Part XXIII. Low temperature heat capacity and entropy of C₆, C₇ and C₈ ketones. *J. Chem. Soc. A* (1970) 833
- ARAKAWA, T., NAGATOSHI, F. (Teijin Ltd., Fiber and Textile Res. Inst., Ibaraki, Osaka, Japan): Melting of paracrystals. *Polymer Letters* 8 (1970) 41
- ARIYA, S. M., YAKOVLEVA, M. S. (Zhdanov State Univ., Leningrad, USSR): Formation enthalpy of ferrous oxide. *Zh. Fiz. Khim.* 44 (1970) 508 (In Russian)
- ARNOLD, D. R., KARNISCHKY, L. A. (Union Carbide Res. Inst., Tarrytown, N.Y., 10591 USA): Photochemical and thermal reactions of 5-oxabicyclo [2.1.0] pentane characteristic of the carbonyl ylide. *J. Am. Chem. Soc.* 92 (1970) 1404
- BARBI, G. B. (CCR Euratom, Div. Met. and Ceramica, Ispra, Italy): Thermodynamic stability of copper oxides. *Gazz. Chim Ital.* 100 (1970) 64 (In Italian)
- BÁRDOSY, G. (Acad. Sci. Res. Lab. Geochem., Budapest, Hungary): Possibilities of the joint application of X-ray diffractometer and derivatograph to the quantitative phase analysis of bauxites and similar rocks. *Acta Chim. Acad. Sci. Hung.* 63 (1970) 267
- BEECH, G., KAUFMANN, G. B. (Dept. Appl. Sci., Wolverhampton College Techn., Wolverhampton, Staffordshire, England): Thermal decomposition of solid isothiocyanate complexes. Part I. Thermochemical properties. *Thermochim. Acta* 1 (1970) 93
- BECHER, P. F., PALMOUR III, H. (N. Carolina State Univ., Dept. Engr. Res., Raleigh, N. C., 27607 USA): High-temperature deformation of alumina double bicrystals. *J. Am. Ceram. Soc.* 53 (1970) 119
- BELYAKOV, V. K., KOSOBUTSKAYA, A. A., SAVINOV, V. M., SOKOLOV, L. B., GITIS, S. S., IVANOVA, V. M. (Vladimir Inst. Synth. Resins, Vladimir, USSR): Thermal degradation of aromatic polyamides with heterogroups in chains. *Vysokomolekul. Soedin. Ser. A* 12 (1970) 610 (In Russian)
- BERTICAT, P., BEJAT, J. J., VALLET, G. (Fac. Sci. Lyons, Lab. Chim. Macromolec., CNRS, Villeurbanne-69, France): Dégradation thermique du polychlorure de vinyle surchloré (PCVS). Influence de la structure du polymère sur sa stabilité thermique (IV). *J. Chim. Phys.* 67 (1970) 170
- BESLIN, P., CONIA, J. M. (Univ. Caen, Dept. Chim., Lab. Étude Carbocycles, Caen, France): Thermolyse et photolyse de cétones non saturées (18^e Mémoire). Application de la thermocyclisation de (butène-3 yl)-3 cyclohexanones à la synthèse totale de céto-12 stéroïdes. *Bull. Soc. Chim. Fr.* (1970) 959
- BIDINOSTI, D. R., MCINTYRE, N. S. (Univ. Western Ontario, Dept. Chem., London, Ont., Canada): Mass spectrometric study of the thermal decomposition of diman

- ganese decacarbonyl and dicobalt octacarbonyl. *Can. J. Chem.* 48 (1970) 593
- BLUMENFELD, A. B., KOVARSKAYA, B. M. (Moscow Plastics Res. Inst., Moscow, USSR): Products of thermal degradation of some polyethers. *Vysokomolekul. Soedin. Ser. A* 12 (1970) 633 (In Russian)
- BOLTE, M., CAPESTAN, M. (Fac. Sci., Serv. Chim. Min., Clermont-Ferrand, France): Décomposition thermique à l'air des mercuriimidodisulfates. II. Sels de baryum, strontium et calcium $M_2Hg[N(SO_3)_2]$; M = Ba, Sr ou Ca. *Bull. Soc. Chim. Fr.* (1970) 865
- BOLTE, M., CAPESTAN, M. (Fac. Sci., Serv. Chim. Min., Clermont-Ferrand, France): Décomposition thermique à l'air des mercuriimidodisulfates. III. Essais de détermination du processus d'hydrolyse. *Bull. Soc. Chim. Fr.* (1970) 868
- BORKA, L. (Stateus Farmakopélab., Oslo 9, Norway): Chloramphenicol palmitate polymorphs. Differential thermal analysis and discussion of IR spectra. *Acta Pharm. Suecica* 7 (1970) 1
- BOYD, G. E., BROWN, L. C. (Oak Ridge Natl. Lab., Oak Ridge, Tenn., 37830 USA): Investigations on the thermal and radiolytic decomposition of anhydrous crystalline potassium chlorite. *J. Phys. Chem.* 74 (1970) 1691
- BRAUER, G. M., TERMINI, D. J., BURNS, C. L. (Natl. Bur. Stand., Dent. Res. Sect., Washington, D. C., 20234 USA): Characterization of components of dental materials and components of tooth structure by differential thermal analysis. *J. Dent. Res.* 49 (1970) 100
- BREUSOV, O. N., KASHINA, N. I., REVZINA, T. V.: Thermal decomposition of potassium, rubidium and cesium chlorates, bromates, iodates, perchlorates and periodates. *Zh. Neorg. Khim.* 15 (1970) 612 (In Russian)
- BRIKOV, A. D., PASHKEVICH, L. A.: Analysis of differential curves in alunite heating. *Zh. Fiz. Khim.* 49 (1970) 544 (In Russian)
- BRISTOW, P. A., WHITING, M. C. (Univ. Bristol, Dept. Org. Chem., Bristol, Gloucs., BS8 1TS England): A low-temperature "thermostat-reactor". *Chem. Ind.* (1970) 590
- BURK, E. H., CARLOS, D. D. (Atlantic Richfield Co., Harvey Tech. Ctr., Harvey, Ill., 60426 USA): Synthesis of organic isocyanates. I. Thermal decomposition of substituted 1,3,2,4-dioxathiazole S-oxides. *J. Heterocycl. Chem.* 7 (1970) 177
- CARRAHER, C. E., KRUEGER, C. W. (Univ. S. Dakota, Chem. Dept., Vermillion, S. D., 57069 USA): Thermal oxidative stability of some poly(phosphonylureas). *Makromol. Chem.* 133 (1970) 219
- CHAO, J. (Thermodyn. Res. Cen., Dept. Chem., Texas Univ., College Station, Texas, 77843 USA): Thermodynamics of vaporization of alkali fluorides. *Thermochim. Acta* 1 (1970) 71
- CHARLOT, C., TIKHOMIROFF, N., LAFFITTE, M. (CNRS, Ctr. Rech. Microcalorimétrie et Thermochimie, Marseille 3^e, France): Le séléniure de zinc: préparation et enthalpie de formation. *Bull. Soc. Chim. Fr.* (1970) 459
- CHEVILLOT, J. P., GOLDWASER, D., HINNEN, C., KOEHLER, C., ROUSSEAU, A. (CNRS, Microcalorimétrie Lab. Electrolyse, 92-Bellevue, France): Thermocinétique de la chimisorption. II. Appareillage microcalorimétrique. *J. Chim. Phys.* 67 (1970) 49
- CHEVILLOT, J. P., GOLDWASER, D., HINNEN, C., KOEHLER, C., ROUSSEAU, A. (CNRS, Microcalorimétrie Lab. Electrolyse, 92-Bellevue, France): Thermocinétique de la chimisorption. III. Utilisation du microcalorimètre Calvet dans les études thermocinétiques. *J. Chim. Phys.* 67 (1970) 56
- CLEGG, G. A., GEE, D. R., MELIA, T. P. (Univ. Salford, Dept. Chem. and Appl. Chem., Salford, Lancs., England): Thermal properties of an ethylene/1-butene block copolymer. *Makromol. Chem.* 132 (1970) 203
- COZENS, R. J., DEACON, G. B., FELDER, P. W., MURRAY, K. S., WEST, B. O. (Monash Univ., Dept. Chem., Clayton, Vic., 3168 Australia): S-Sulphinates of cobalt(III)-planar chelates and sulphur dioxide insertion into a cobalt(III)-carbon bond. *Aust. J. Chem.* 23 (1970) 481
- CRANDALL, J. K., WATKINS, R. J. (Indiana Univ., Dept. Chem., Bloomington, Ind., 47401 USA): Thermal transformation of 1,2-cyclonadiene. *Tetrahedron Lett.* (1970) 1251

- DALY, N. J., ZIOLKOWSKI, F. J. (Austl. Natl. Univ., Sch. Gen. Stud., Dept. Chem., Canberra, 2600 Australia): The thermal decomposition of t-butyl isopropyl ether. *Aust. J. Chem.* 23 (1970) 541
- D'ASCENZO, G., WENDLANDT, W. W. (Univ. Rome, Chem. Inst., Rome, Italy): The thermal properties of some metal pyridine-carboxylates. *Anal. Chim. Acta* 50 (1970) 79
- DATYE, K. V., PITKAR, S. C.: Dyeing poly-(ethylene terephthale) fibre with disperse dyes at elevated temperatures: Kinetics of thermofix dyeing at 210° C. *Indian J. Techn.* 8 (1970) 6
- DAVIS, A. (Min. Techn., Expl. Res. Dev. Estab., Waltham Abbey, Essex, England): Comparison of the thermal and thermo-oxidative stability of polycarbonate, polyphenylene oxide, polysulphone and two polyacrylates. *Makromol. Chemie* 132 (1970) 23
- DELMAN, A. D. (Wool Bureau. Inc., Woodbury, N.Y., 11797 USA): Thermal behavior of poly-p-xylylene-m-carborane. *J. Polymer Sci. A-1*, 8 (1970) 943
- DESAI, P., WILHOIT, R. C. (Thermodyn. Res. Center, Dept. Chem., Texas A and M Univ., College Station, Texas, 77843 USA): Heats of combustion and enthalpies of formation of d-ribose, d-arabinose, and l-ascorbic acid. *Thermochim. Acta* 1 (1970) 61
- DOI, A., KATO, C. (Waseda Univ., Dept. Appl. Chem., Shinjuku, Tokyo, Japan): Thermal decomposition of lead carbonate. *J. Chem. Soc. Jap. Ind.* 73 (1970) 488 (In Japanese)
- DUC, C. M., PROST, M., ROSE, M., PASCAULT, J. P. (Inst. Natl. Sci. Appl., Lab. Chim. Macromolec., 69-Villeurbanne, France): Étude thermogravimétrique de composés d'insertion ternaires graphite de Madagascar-métaux alcalins-diméthoxyéthane. *Compt. Rend. Ser. C* 270 (1970) 961
- EGGER, K. W., JAMES, T. L. (Monsanto Res. S.A., 8050-Zürich, Switzerland): Thermal geometrical isomerization of 1,trans-3,trans-5-heptatriene and the concept of a biradical intermediate. *Trans. Faraday Soc.* 66 (1970) 410
- ENGEL, R. R., LIOTTA, D. (City Univ. New York, Queens Coll., Dept. Chem., Flushing, N.Y., 11367 USA): Thermal decomposition of phosphorothioates. *J. Chem. Soc. C* (1970) 523
- ENGLISH, J. E. (King's Coll., Fac. Engn., London, W.C. 2, England): Thermal conductivity effects in the differential thermal analysis of powdered materials. *J. Soc. Cosmet. Chem.* 21 (1970) 221
- ENIS, B. C. (Defence Stand. Lab., Melbourne, Australia): Thermal analysis: the melting of polyacrylonitriles. *Proc. Fourth Nat. Conv.*, Canberra (1970)
- EVANS, W. J., McCOURTNEY, CARNEY, W. B. (So. Reg. Res. Lab., New Orleans, La., 70119 USA): A microcalorimeter using semiconductors as the sensing elements. *Chem. Instrum.* 2 (1969) 249
- FIELDEN, R., METH-COHN, O., SUSCHITZKY, H. (Univ. Salford, Chem. Dept., Salford, Lancs., England): Thermal and photolytic cyclisation, rearrangement and denitration reaction of o-nitro-t-anilines. *Tetrahedron Lett.* (1970) 1229
- FOGLER, S., LAWSON, D.: γ -Irradiation effects on the thermal stability and decomposition of ammonium perchlorate. *J. Phys. Chem.* 74 (1970) 1637
- FRANKS, F., QUICKENDEN, M. A. J., REID, D. S., WATSON, B. (Unilever Res. Lab., Biophys. Div., Sharnbrook, Beds., England): Calorimetric and volumetric studies of dilute aqueous solutions of cyclic ether derivatives. *Trans. Faraday Soc.* 66 (1970) 582
- FRANZ, J. E., BLACK, L. L. (Monsanto Co., Agr. Res. Dept., Crop Protection Grp., St. Louis, Mo., 63166 USA): Thermolysis and photolysis of 1,3,4-oxathiazole-2-ones-I. *Tetrahedron Lett.* (1970) 1381
- FRÄTER, Gy., SCHMIDT, H. (Univ. Zürich, Org. Chem. Inst., Zürich, Switzerland): Thermische Umwandlung von penta-2,4-dienyl-phenyläthern in 4-(penta-2,4-dienyl)-phenole; [5s,5s]-sigmatropische Umlagerungen. *Helv. Chim. Acta* 53 (1970) 269
- FRENKEL, S. I., GINSBURG, B. M. (Inst. High Molec. Cpd., Acad. Sci., Leningrad, USSR): Crystallinity of poly-2,2'-octamethylene-5,5'-dibenzimidazole and structural changes resulting from heat treatment. *J. Polymer Sci. C* 22 (1969) 813
- GAJEWSKI, J. J., BLACK, W. A. (Indiana Univ., Dept. Chem., Bloomington, Ind., 47401

- USA): Thermal dimerization of racemic and optically active 2,3-pentadiene. *Tetrahedron Lett.* (1970) 899
- GALPERIN, L. N., KOLESOV, Y. R., ZELENOV, N. A. (Acad. Sci. USSR, Chem. Phys. Inst., Chernogolovka, USSR): Automatic differential microcalorimeters. *Zh. Fiz. Khim.* 44 (1970) 525 (In Russian)
- GAMONDÉS, J. P., D'YVOIRE, F., BOULLÉ, A. (École Mines, Lab. Chim., CNRS, 60 Blvd. St. Michel, Paris 6^e, France): Évolution thermique d'orthophosphates acides doubles de fer trivalent et de sodium. *Compt. Rend. Ser. C* 269 (1969) 1532
- ГБЕ, D. R., MELIA, T. P. (Univ. Salford, Dept. Chem. and Appl. Chem., Salford, Lancs., England): Thermal properties of melt and crystallized isotactic polypropylene. *Makromol. Chem.* 132 (1970) 195
- GERVAIS, M., GALLOT, B. (CNRS, Ctr. Biophys. Molec., 45-Orléans, France): Étude par analyse thermique différentielle et diffraction des rayons X du diagramme de phase concentration-température du système copolymère bisequence polystyrène-polyoxyéthylène/phthalate de diéthyle. *Compt. Rend. Ser. C* 270 (1970) 784
- GIAUQUE, W. F., FISHER, R. A., BRODALE, G. E., HORNUNG, E. W. (Univ. Calif., Dept. Chem., Low Temp. Lab., Berkeley, Calif., 94720 USA): Magnetothermodynamics of α -MnCl₂·4H₂O. II. Heat capacity, entropy, magnetic moment, from 0.4 to 4.2° K with fields to 90 kG along the *b* crystallographic axis. *J. Chem. Phys.* 52 (1970) 2901
- GIBBY, R. L., MCNEILLY, C. E., CHIKALLA, T. D. (Battelle Mem. Inst., Pacific NW Lab., Richland, Wash., 99352 USA): The thermal diffusivity, thermal conductivity, and transformation temperatures of curium sesquioxide. *J. Nucl. Mater.* 34 (1970) 299
- GULBRANSEN, E. A. (Westinghouse Res. Labs., Pittsburgh, Pa., 15235 USA): Thermochemistry and the oxidation of refractory metals at high temperature. *Corrosion* 26 (1970) 19
- GULIA, V. G., KOMISSAROVA, L. N., KRASNOPYARSKAYA, A. A., SAS, T. M. (Inorg. Chem. Dept., Moscow, USSR): Thermal stability of scandium subthiocyanate. *Vestn. Mosk. Univ. Khim.* 11 (1970) 38 (In Russian)
- HADJIEV, S. N., AGARUNOV, M. J. (Acad. Sci. Azerbaijan SSR, Inst. Phys., Baku, AzSSR): Thermochemical studies of organometallic compounds. II. Thermochemistry of methylchlorosilanes. *J. Organometal. Chem.* 22 (1970) 305
- HALL, H. K. (Univ. Arizona, Dept. Chem., Tucson, Ariz., 85721 USA): A dilatometer for determining the rates of moderately rapid reactions. *Chem. Ind.* (1970) 497
- HAMBY, D. C., SCOTT, A. B. (Linfield Coll., McMinnville, Oreg., 97128 USA): Thermodynamic properties of molten mixtures of cobalt chloride with some alkali halides. *J. Electrochem. Soc.* 117 (1970) 319
- HAMPSON, N. A., HERDMAN, G. A., TAYLOR, R. (Loughborough Univ. Technol., Chem. Dept., Loughborough, Leics., England): Some kinetic and thermodynamic studies of the system Zn/Zn(II). OH⁻. *J. Electroanal. Chem.* 25 (1970) 9
- HASCHKE, J. M., EICK, H. A.: The vaporization thermodynamics of europium dibromide. *J. Phys. Chem.* 74 (1970) 1806
- HASHIZUME, G., AMITA, K. (Ind. Res. Inst. Hyogo-Pref., Suma-ku, Kobe-shi, Japan): Effect of the particle size of crystalline magnesium hydroxide on differential scanning calorimetry and differential thermal analysis. *Jap. Anal.* 19 (1970) 667 (In Japanese)
- HAUGSTEN, K., RØST, E. (Univ. Oslo, Kjemisk Inst. A, Blindern, Oslo 3, Norway) Phase relations in the system Ni-S-Se at 500°C. *Acta Chem. Scand.* 23 (1969) 3599
- HEIMGARTNER, H., HANSEN, H. J., SCHMID, H. (Univ. Zürich, Org. Chem. Inst., Zürich, Switzerland): 23. Thermisches Verhalten von o-Dipropenylbenzol, Beispiel einer aromatischen [1,7]-sigmatropischen H-Verschiebung. *Helv. Chim. Acta* 53 (1970) 173
- HILL, V. G., ZIMMERMANN, K. G. (Dept. Mines, Kingston 6, Jamaica, W. I.): Hydrothermal growth and thermal decomposition of boehmite single crystals. *Am. Mineralogist* 55 (1970) 285
- HOWARD, P. B., WADSDÖ, I. (British Titan Prod., Cent. Res. Labs., Stockton-on-Tees, Teesside TT 18 3 EG, England): Enthalpies of vaporization of organic compounds. IV. Alkyl nitriles. *Acta Chem. Scand.* 24 (1970) 145

- INGRAHAM, T. R., MARIER, P. (Mines Branch, Dept. Energy, Mines and Resources, Ottawa, Canada): The kinetics of the thermal decomposition of CoSO_4 and Co_3O_4 . *Thermochim. Acta* 1 (1970) 39
- JARIWALA, S. L., HOELSCHER, H. E. (Tenneco Chemicals Inc., Heyden Div., Garfield, N. J., 07026 USA): Model for oxidative thermal decomposition of starch in a fluidized reactor. *Ind. Eng. Chem. Proc. Des. Dev.* 9 (1970) 278
- JONES, M., HENDRICK, M. E., GILBERT, J. C., BUTLER, J. R. (Princeton Univ., Dept. Chem., Princeton, N. J., 08540 USA): Thermal rearrangement of 2,2-diphenylmethylenecyclopropanes to indenenes. *Tetrahedron Lett.* (1970) 845
- JOYNER, T. B.: (US Naval Weapons Ctr., Chem. Div., China Lake, Calif., 93555): The thermal decomposition of solid hexamminecobalt(III)azide. Kinetics of the cobalt nitride reaction. *J. Phys. Chem.* 74 (1970) 1552
- JOYNER, T. B.: (US Naval Weapons Ctr., Chem. Div., China Lake, Calif., 93555): The thermal decomposition of solid hexamminecobalt(III)azide. A model for the cobalt nitride reaction. *J. Phys. Chem.* 74 (1970) 1558
- JOYNER, T. B.: (US Naval Weapons Ctr., Chem. Div., China Lake, Calif., 93555): The mechanism of the thermal decomposition of solid cobalt(III)amine azides. *J. Phys. Chem.* 74 (1970) 1563
- JUDD, M. D., POPE, M. I. (Portsmouth Polytech., Chem. Dept., Portsmouth, Hants., England): Formation and surface properties of electron-emissive coatings. III. Thermal decomposition and sintering of some co-precipitated alkaline earth carbonates. *J. Appl. Chem.* 20 (1970) 69
- KAUFMANN, G. B., BEECH, G. (California State College Fresno Dept. Chem., Fresno, Calif., 93726 USA): Thermal decomposition of solid isothiocyanate complexes. Part II. Kinetic parameters. *Thermochim. Acta* 1 (1970) 99
- KEFER, R. G., AMIROVA, S. A., YAGUD, B. Y.: IR spectroscopy in thermal nitrosyl chloride decomposition. *Zh. Neorg. Khim.* 15 (1970) 362 (In Russian)
- KICE, J. L., GABRIELSEN, R. S. (Oregon State Univ., Dept. Chem., Corvallis, Oreg., 97331 USA): The thermal decomposition of benzenediazo sulfones. I. Methyl benzenediazo sulfone. *J. Org. Chem.* 35 (1970) 1004
- KICE, J. L., GABRIELSEN, R. S. (Oregon State Univ., Dept. Chem., Corvallis, Oreg., 97331 USA): The thermal decomposition of benzenediazo sulfones. II. Benzyl benzenediazo sulfone. *J. Org. Chem.* 35 (1970) 1010
- KISS, A. B. (Tungfram Res. Labs., Budapest 4, Hungary): Thermogravimetric and IR spectrophotometric evaluation of TG steps of thermal decomposition producing two gases. *Acta Chim. Acad. Sci. Hung.* 63 (1970) 243
- KITAGAWA, T., MARUYAMA, Y. (Osaka City Univ., Fac. Sci., Sumiyoshi-ku, Osaka, Japan): Thermal decomposition of Tl(III)-oxine chelate. *Jap. Anal.* 19 (1970) 366 (In Japanese)
- KNITTEL, D., HEMETSBERGER, H., LEIPART, R., WEIDMAN, H. (Techn. Hochsch. Graz, Inst. Org. Chem. and Org. Chem. Technol. Graz, Austria): Thermolysereaktion von Enazidocarbonylverbindungen. *Tetrahedron Lett.* (1970) 1459
- KOLESNIKOV, H. S., FEDOTOVA, O. Y., PAREISHVILI, O. I., BELEVSKII, S. F. (Mendeleev Chem. Technol. Inst., Moscow, USSR): Study of thermal cyclization of phosphorylated homo- and mixed aromatic polyamidoacids on the infrared spectra. *Vysokomolekul. Soedin. Ser. A* 12 (1970) 317 (In Russian)
- KOROBENICHEV, O. P., ALEKSANDROV, V. V., LYAKHOV, N. Z. (Acad. Sci. USSR, Novosibirsk, USSR): Investigation of the kinetics and mechanism of pyroxylin high temperature decomposition by the time-of-flight mass-spectrometer. *Izv. Akad. Nauk SSSR* (1970) 612 (In Russian)
- KORSHAK, V. V., VINOGRADOVA, S. V., DANILOV, V. G., BERIDZE, L. A., SALAZKIN, S. N. (Acad. Sci. USSR, Organoelemental Cpd. Inst., Moscow, USSR): Thermal stability of some polyacrylates. *Vysokomolekul. Soedin. Ser. B* 12 (1970) 129 (In Russian)
- KOZLOV, V. V., SAGALOVICH, V. P., SMIRNOVA, V. G., BELKOV, A. F. (Plekhanov Natl. Econ. Inst., Moscow, USSR): De-

- termination of thermal stability of diazo compounds. *Zh. Vses. Khim. Ob-va Mend.* 14 (1969) 709 (In Russian)
- KRAEUTLE, K. J. (US Naval Weapons Ctr., China Lake, Calif., 93555 USA): The thermal decomposition of orthorhombic ammonium perchlorate single crystals. *J. Phys. Chem.* 74 (1970) 1350
- KRESTOV, G. A., KRESTOVA, N. V.: Temperature dependence of interion in rare earth sesquioxides. *Zh. Neorg. Khim.* 15 (1970) 299 (In Russian)
- KURACHENKOV, V. I., PETRAKOV, V. M., IGONIN, L. A. (Moscow Sci. Res. Inst. Plast., Moscow, USSR): Studies of settling of phenolformaldehyde Novolac resins with hexamethylenetetraamine by means of DTA under pressure. *Vysokomolekul. Soedin. Ser. B* 12 (1970) 127 (In Russian)
- LAZAREV, A. N., MAKASHEV, Y. A., MIRONOV, V. E. (Gertsen Teachers Inst., Leningrad, USSR): Thermodynamics of hydrogen hexacyanoferrate. *Zh. Neorg. Khim.* 15 (1970) 459 (In Russian)
- LAZAREVA, L. S., AMBROZHIL, M. N., DVORNIKOVA, L. M. (State Univ., Chem. Sci. Res. Inst., Saratov, USSR): Thermal stability of cerium and praseodymium valerates. *Zh. Neorg. Khim.* 15 (1970) 354 (In Russian)
- LEBEDEV, V. M., VENEVTSEV, Y. N., ZHDANOV G. S. (Karpov Physicochem. Sci. Res. Inst., Moscow, USSR): The high-temperature X-ray investigation of a Perovskite modification $CdTiO_3$. *Kristallografiya* 15 (1970) (In Russian)
- LENNON, B. S., STIMSON, V. R. (Univ. New England, Dept. Phys. and Inorg. Chem., Armidale, N. S. W. 2351, Australia): The thermal decomposition of trimethylacetyl bromide. *Aust. J. Chem.* 23 (1970) 525
- LEYENDECKER, F., MANDVILLE, G., CONIA, J. M. (Univ. Caen, Dept. Chim. Lab. Étud. Carbocycles, Caen, France): Thermolyse et photolyse de cétones non saturées (16^e Mémoire). La thermocyclisation en phase vapeur, aspects théoriques et techniques nouveaux. *Bull. Soc. Chim. Fr.* (1970) 549
- LEYENDECKER, F., MANDVILLE, G., CONIA, J. M. (Univ. Caen, Dept. Chim. Lab. Étud. Carbocycles, Caen, France): Thermolyse et photolyse de cétones non saturées (17^e Mémoire). Nouvelle voie d'accès aux bicyclo [n.3.1] alcanones-2 par thermocyclisation d'alcényl-4 et d'alcynyl-4 cyclohexanones. *Bull. Soc. Chim. Fr.* (1970) 556
- LISSAC-CAHU, M., DESCOTES, G. (ESCIL, Lab. Chim. Org. II, 69-Villeurbanne, France): Isomérisation thermique de méthoxy-2 dihydropyranes. *Compt. Rend. Ser. C* 269 (1969) 1574
- LONG, L. H. (Univ. Exeter, Dept. Chem., Exeter, Devon., England): The mechanisms of thermal decomposition of diborane and of interconversion of the boranes. A reinterpretation of the evidence. *J. Inorg. Nucl. Chem.* 32 (1970) 1097
- LUKASHENKO, E. E., KOROBENIKOV, A. P., KHOMAIKO, I. A. (Krasnoyarsk Non Ferrous Met. Inst., Krasnoyarsk, USSR): Saturated vapor pressure and vaporization enthalpy of individual sodium and potassium chlorides. *Zh. Fiz. Khim.* 44 (1970) 341 (In Russian)
- LUKASHENKO, E. E., KORBATOV, V. L. (Krasnoyarsk Non Ferrous Met. Inst., Krasnoyarsk, USSR): Saturated vapor pressure, enthalpy of vaporization and magnesium chloride vaporization. *Zh. Fiz. Khim.* 44 (1970) 331 (In Russian)
- MACCALLUM, J. R., TANNER, J. (Simor Fraser Univ., Burnaby 2, B. C. Canada): Derivation of rate equations used in thermogravimetry. *Nature* 225 (1970) 1127
- MACKAY, G. I., MARCH, R. E. (Trent Univ., Dept. Chem., Peterborough, Ont., Canada) Thermal decomposition of cyclopentene. *Can. J. Chem.* 48 (1970) 913
- MAGNAN, R. (Ciments La Farge, Lab. Cent., Viviers, France): Application of microcalorimetry to studies of the hydration of cements. *Am. Ceram. Soc. Bull.* 49 (1970) 314
- MAIER, G., FUSS, I., SCHNEIDER, M. (Univ. Karlsruhe, Inst. Org. Chem., Karlsruhe, GFR): Thermolyse von 1.6-dimethyl-2.5-diphenyl-3.4-diazobicyclo-[4.4.0]decatetraen-(2.4.7.9) — eine ungewöhnlich leicht verlaufende 1.5-Kohlenstoffverschiebung. *Tetrahedron Lett.* (1970) 1057
- MARMION, D. M. (Allied Chem. Corp., Speciality Chem. Div., Buffalo, N.Y., 14240 USA): Evaluation of color additives using a differential scanning calorimeter. *J. Ass. Offic. Anal. Chem.* 53 (1970) 244

- MCADIE, H. G., JERVIS, J. M. (Ontario Res. Found., Dept. Phys. Chem., Sheridan Park, Ont., Canada): The pyrolysis of metal acetates. Part I. Some group II acetates. *Thermochim. Acta* 1 (1970) 19
- MINCIONE, E., CORSANO, S. (Univ. Rome, 1 Cattedra, Inst. Chim. Org., Rome, Italy): Thermal isomerization of streoid boranes. *Accad. Naz. Lincei Rend.* 47 (1969) 320
- MINSKER, K. S., KRATS, E. O., PAKHOMOVA, I. K.: Distribution of polyenic sequences during polyvinylchloride thermal degradation. *Vysokomolekul. Soedin. Ser. A* 12 (1970) 483 (In Russian)
- MOEDRITZER, K., MILLER, R. E. (Monsanto Co., Cent. Res. Dept., St. Louis, Mo., 63166 USA): Thermal decomposition of phosphine complexes of nickel(II) dihalides. *Thermochim. Acta* 1 (1970) 87
- MORIMOTO, N., KOTO, K. (Osaka Univ., Inst. Sci. and Ind. Res., Osaka, Japan): Phase relations of the Cu-S system at low temperatures: stability of anilite. *Am. Mineralogist* 55 (1970) 106
- MOREAU, C., CONIA, J. M., ROUESSAC, F. (Fac. Libre Sci. et Hautes Etud. Ind., CNRS, Lille, France): Thermolyse et photolyse de cétones non saturées (15^e Mémoire). La thermocyclisation des cétones $\alpha\psi$ - et $\eta\psi$ -éthyléniques comportant hétéroatome ou groupe fonctionnel au niveau de la double liaison. *Bull. Soc. Chim. Fr.* (1970) 545
- MOYNIHAN, C. T., ANGELL, C. A. (Purdue Univ., Dept. Chem., Lafayette, Ind., 47907 USA): Mass transport in ionic melts at low temperatures. Chronopotentiometric diffusion coefficients of silver(I), cadmium(II), and thallium(I) in calcium nitrate tetrahydrate. *J. Phys. Chem.* 74 (1970) 736
- MULLEY, V. J., CAVENDISH, C. D. (Unilever Res. Lab., 455 London Road Isleworth, Middx., England): A thermogravimetric method for the analysis of mixtures of brushite and monetite. *Analyst* 95 (1970) 304
- MURAISHI, K. (Yamagata Univ., Fac. Sci., Dept. Chem., Yamagata, Japan): Influence of the presence of gase phase on the thermal decomposition of cadmium carbonate. *J. Chem. Soc. Jap. Pure* 91 (1970) 122 (In Japanese)
- MURAT, M. M. (Fac. Sci. Lyon, Lab. Chim. Appl. and Genie Chim., 69-Villeurbanne, France): Evolution thermique des zéolites naturelles et synthétiques: intérêt présenté par l'étude des courbes dilatométriques. *Compt. Rend. Ser. D* 270 (1970) 1657
- MURAT, M., COMEL, C. (Fac. Sci. Lyon, Lab. Chim. Appl. and Genie Chim., 69-Villeurbanne, France): Particularités présentées par la déshydratation du gypse en fonction de l'origine du minéral. *Compt. Rend. Ser. C* 229. (1970) 1849
- MURAYAMA, H., KYOGOKU, K., IGUCHI, T., KOYANAGI, S.: Studies on pyrethroid insecticide. Part III. Temperature distribution in burning coil and thermal analysis of allithrin and phthalthrin. *J. Agr. Chem. Soc. Jap.* 44 (1970) 77 (In Japanese)
- MYAKOV, V. N., TROITSKII, B. B.: Effect of mercury on thermal degradation of polyvinylchloride. *Vysokomolekul. Soedin. Ser. B* 12 (1970) 100 (In Russian)
- NAGY-KOVÁCS, H., DELMAN, A. D., SIMMS, B. B. (Naval Appl. Sci. Lab., Brooklyn, N.Y., 11251 USA): Thermally stable silarylene-1, 3,4-oxadiazole polymers. *J. Polymer Sci. A-1*, 8 (1970) 869
- NAKANO, M., MOCHIZUKI, K.: Matters that demand attention in differential thermal analysis. *Jap. Anal.* 19 (1970) 427 (In Japanese)
- NIYA, I., MARUYAMA, T., IMAMURA, M., MATSUMOTO, T. (Jap. Margarine and Shortening Makers Assoc., Foundation, 30, Nihonbashi Hamachō 3-Chōme, Chūō-ku, Tokyo, Japan): Differential thermal analysis of edible fats and oils. III. Continuous cooling and heating DTA of hardened soybean oil and mixture of hardened and liquid soybean oil. *Oil Chemistry* 18 (1969) 849 (In Japanese)
- NOREM, S. D., O'NEILL, M. J., GRAY, A. P. (Perkin-Elmer Corp., Norwalk, Conn., 06852 USA): The use of magnetic transitions in temperature calibration and performance evaluation of thermogravimetric system. *Thermochim. Acta* 1 (1970) 29
- OSAWA, Z.: Study on the thermal analysis of copolymers using common samples. *Jap. Anal.* 19 (1970) 415 (In Japanese)
- OSTRIKOVA, N. V. (Voronezh State Univ., Voronezh, USSR): Thermal analysis of

- the $\text{GaCl}_3\text{--FeCl}_3\text{--NaCl}$ system. *Zh. Neorg. Khim.* 15 (1970) 880 (In Russian)
- OTTERBEIN, M., BROUSSE, É., BONNETAIN, L., LESPINASSE, B. (Inst. Natl. Sci. Appl. Lyon, Lab. Genie Chim., 69 Villeurbanne, France): Oxydation du carbone vitreux à hautes températures. *Compt. Rend. Ser. C* 270 (1970) 662
- PAN, K., CHEN, L. S. (Natl. Taiwan Univ., Chem. Res. Ctr., Taipei, Taiwan): Thermodynamic studies of biunivalent electrolytes. VI. Thermodynamics of cadmium acetate from E.M.F. and calorimetric measurements. *J. Chin. Chem. Soc. Ser. II* 16 (1969) 107
- PAPATHEODOROU, G. N., KLEPPA, O. J. (Univ. Chicago, Dept. Chem., Chicago, Ill., 60637 USA): Enthalpies of mixing of liquid nickel(II)chloride-alkalichloride mixtures at 810°C . *J. Inorg. Nucl. Chem.* 32 (1970) 889
- PATTERSON, J. M., ISSIDORIDES, C. H., PAPADOPOULOS, E. P., SMITH, W. T. (Univ. Kentucky, Dept. Chem., Lexington, Ky., 40506 USA): The thermal interconversion of quinoline and isoquinoline. *Tetrahedron Lett.* (1970) 1247
- PAQUETTE, L. A., WYVRATT, M. J., ALLEN, G. R. (Ohio State Univ., Dept. Chem., Columbus, Ohio, 43210 USA): Stereochemistry of the thermal fragmentation of β -lactams. Comparison with the pyrolysis of 1-azetines. *J. Am. Chem. Soc.* 92 (1970) 1763
- PENNINGTON, S. N., BROWN, H. D. (Canc. Res. Ctr., Biochem. Sect., Columbia, Mo., 65201 USA): Construction and operation of a benchtop four-element instrument for analytical microcalorimetry. *Chem. Instrum.* 2 (1969) 167
- PETERS, W. (Bergbau-Forsch. GmbH, 43 Essen-Kray, GFR): Zur Kinetik der schnellen thermischen Reaktionen an Steinkohlen. *Angew. Chem.* 82 (1970) 297
- PHILLIPS, R., VASTOLA, F. J., WALKER, P. L. (Pennsylvania State Univ., Dept. Mat. Sci., University Park, Pa., 16802 USA): The thermal decomposition of surface oxides formed on Graphon. *Carbon* 8 (1970) 197
- PICHLER, H., KATER, E. (Univ. Karlsruhe, Engler und Bunte Inst., Karlsruhe, GFR): Tieftemperatur-thermomagnetische Analyse von Eisenkatalysatoren für die Benzinsynthese. *Brennstoff-Chemie* 50 (1969) 373
- PIRUZJAN, L. A., ROSENFELD, M. A., GLESER, V. M. (Acad. Sci. USSR, Inst. Chem. Phys., Moscow, USSR): Microcalorimetric investigations of the process of blood coagulation. *Izv. Akad. Nauk SSSR, Ser. Biol.* (1970) 299 (In Russian)
- POTZINGER, P., LAMPE, F. W. (Pennsylvania State Univ., Whitmore Lab., University Park, Pa., 16802 USA): Thermochemistry of simple alkylsilanes. *J. Phys. Chem.* 74 (1970) 719
- PRESTON, J., DE WINTER, W. F. (Chemstrand Res. Ctr., Durham, N. C., 27792 USA): Intermediates for the preparation of thermally stable polymers. IV. Symmetrical quinoxalines and benzoyl-benzimidazoles. *J. Heterocycl. Chem.* 7 (1970) 433
- PRISYAZHNUK, A. I., IVANCHEV, S. S. (Mechnikov State Univ., Odessa, UkSSR): Diperoxides with different thermostability of peroxide groups as initiators of radical polymerization and block-copolymerization. *Vysokomolekul. Soedin. Ser. A* 12 (1970) 450 (In Russian)
- PRIVALOV, P. L., TITKTOPULO, E. I. (Acad. Sci. USSR, Inst. Prot. Res. Poustchino, USSR): Thermal conformational transformation of tropocollagen. I. Calorimetry study. *Biopolymers* 9 (1970) 127
- PROKS, I., ZLATOVSKÝ, I. (Acad. Sci., Inst. Inorg. Chem., Bratislava 9, Czechoslovakia): Periodic thermal analysis. *Chem. Zvesti* 23 (1969) 620
- PRYIMOVA, L. A., SELIVANOVA, N. M. (Mendeleev Chem. Technol. Inst., Moscow, USSR): Heat formation of potassium-magnesium selenate schoenite, $\text{K}_2\text{Mg}(\text{SeO}_4)_2 \cdot 6\text{H}_2\text{O}$. *Zh. Fiz. Khim.* 44 (1970) 507 (In Russian)
- PUDOV, V. S., PAPKO, R. A. (Acad. Sci. USSR, Chem. Phys. Inst., Moscow, USSR): Critical phenomena at thermal degradation of polyvinylchloride. *Vysokomolekul. Soedin. Ser. B* 12 (1970) 218 (In Russian)
- RAFIKOV, S. R., ARKHIPOVA, I. A., BUKETOVA, N. I. (Acad. Sci. KaSSR, Inst. Chem. Sci., Alma Ata, KaSSR): Thermal and thermooxidative aging and stabiliz-

- zation of polyamides. *Vysokomolekul. Soedin. Ser. B* 12 (1970) 234 (In Russian)
- RAO, C. G. (Inst. Petr. Exploration, ONG. Comm., Dehra Dun, India): Differential thermal analysis (DTA) study of some carbonate rocks of the krol series. *Curr. Sci. India* 39 (1970) 156
- RAO, K. V. K., NAIDU, S. V. N., IYENGAR, L. (Osmania Univ., Dept. Phys., Hyderabad, India): Thermal expansion of rutile and anatase. *J. Am. Ceram. Soc.* 53 (1970) 124
- REGINATO, L. (Solvay and Cie., Dept. Rech. and Dev., Bruxelles 12, Belgium): Thermal degradation of poly-4-methylpentene-1. Part 1. The products of degradation. *Makromol. Chem.* 132 (1970) 113
- REGINATO, L. (Solvay and Cie., Dept. Rech. and Dev., Bruxelles, 12, Belgium): Thermal degradation of poly-4-methylpentene-1. Part 2. The mechanism of degradation. *Makromol. Chem.* 132 (1970) 125
- REICH, L., STIVALA, S. S. (Polym. Res. Branch, Picatinny Arsenal, Dover, N. J., 07801 USA): Heat transfer effects during teflon degradation by TGA. *Thermochim. Acta* 1 (1970) 65
- REZNITSKII, L. A., KHOLLER, V. A., FILIPOVA, S. E.: Differential microcalorimeter for quantitative thermography. *Zh. Fiz. Khim.* 44 (1970) 534 (In Russian)
- ROBERTS, E. (Battelle-Inst., Frankfurt/M., GFR): Thermogravimetrische Arbeitsmethoden. Calorimetrische und thermogravimetrische Meßverfahren (164. Dechema-Kolloquium). *Chem. Ing. Tech.* 42 (1970) 416
- ROBERTS, R. C. (Imp. Chem. Ind., Petro. and Polym. Lab., P. O. Box 11, Runcorn, Cheshire, England): Nomenclature in thermal analysis. (Letter to the editor) *Chem. Ind.* (1970) 515
- ROGERS, R. N., SMITH, L. C. (Univ. Calif., Los Alamos Sci. Lab., P. O. Box 1663, Los Alamos, N. M., 87544 USA): Application of scanning calorimetry to the study of chemical kinetics. *Thermochim. Acta* 1 (1970) 1
- ROOTS, W. K., MEEKER, L. D. (Rutgers Univ., Dept. Math., New Brunswick, N. J., 08903 USA): Note on the rapid evaluation of thermal process stability. *J. Inst. Fuel* 43 (1970) 120
- ROUANET, A. (CNRS, Lab. Ultra Refractaires, Odeillo, France): Étude à haute température du système zircone-sesquioxide de néodyme. *Compt. Rend. Ser. C* 270 (1970) 802
- RUBTSOV, Y. I., MENELIS, G. B. (Acad. Sci. USSR, Chem. Phys. Inst., Chernogolovka, USSR): Thermal decomposition kinetics of hydrazone nitrate. *Zh. Fiz. Khim.* 44 (1970) 396 (In Russian)
- RUPCHEVA, V. A., ROMANOVA, T. V., AMIROVA, S. A.: Thermochemical conversions of chromium and manganese bromides. *Zh. Neorg. Khim.* 15 (1970) 324 (In Russian)
- RYZHENKOV, A. P. (Organoelem. Cpds. Inst., Moscow, USSR): Investigation of the thermal expansion of molecular crystals. III. The tensor for thermal expansion of dibenzyl. *Kristallografiya* 15 (1970) 326 (In Russian)
- SAINT-RUF, G., BUU-HOI, N. P. (CNRS, Ctr. Marcel-Delepine, 45-Orléans, France): Sur la thermolyse d'une nouvelle série d'aldazines aromatiques et hétérocycliques. *Bull. Soc. Chim. Fr.* (1970) 525
- SALOMON, M. (NASA, Electr. Res. Ctr., Cambridge, Mass., 02139 USA): Thermodynamics of sodium iodide in propylene carbonate. *J. Electroanal. Chem.* 25 (1970) 1
- SARBAEV, A. N., TIMOSHENKO, L. S. (State Nitrogen Ind. and Org. Synth. Prod. Inst., Moscow, USSR): Carbamide decomposition kinetics in the presence of monoammonium phosphate at higher temperatures. *Zh. Prikl. Khim.* 43 (1970) 28 (In Russian)
- SAVELEVA, M. V., SHAKNO, I. V., PLYUSHCHEV, V. E., ANTONOVA, S. S. (Moscow Inst. Fine Chem. Technol., Moscow, USSR): Thermal and X-ray phase analysis of the $\text{Ln}_2(\text{MoO}_4)_3\text{-K}_2\text{MoO}_4$ systems. *Zh. Neorg. Khim.* 15 (1970) 835 (In Russian)
- SCHNEIDER, M. P., CRAWFORD, R. J. (Univ. Alberta, Dept. Chem., Edmonton, Alb., Canada): Thermolysis of some 2,3-diazabicyclo-[3.3.0] octene systems. *Can. J. Chem.* 48 (1970) 628
- SEKIGUCHI, K., HIMURO, I., HORIKOSHI, I., TSUKADA, T., OKAMOTO, T. (Sch. Pharm. Sci., Kitasoto Memorial Univ., Fac.

- Pharm. Sci., Tokyo, Japan): Thermal analysis of organic medicinals. I. Detection of the molecular compound formation by the differential thermal analysis and by the differential scanning calorimetry. *Chem. Pharm. Bull.* 17 (1969) 191
- SEKINE, Y., IKEDA, K., TAKETANI, H. (Waseda Univ., Sch. Sci. and Engn., Shinjuku, Tokyo, Japan): Studies on thermal degradation of alternate and block copolycarbonates derived from bisphenol A and tetrachlorobisphenol A. *J. Chem. Soc. Jap. Ind.* 73 (1970) 429 (In Japanese)
- SHAMRAEV, G. M., DULOV, A. A., LIUGON'KII, B. I., BERLIN, A. A. (Acad. Sci., Chem. Phys. Inst., Moscow, USSR): Thermal transformations of some aromatic polyamido- and polyaminoamidoacids. *Vysokomolekul. Soedin. Ser. A* 12 (1970) 401 (In Russian)
- SHELDON, R. A., KOCHI, J. K. (Case Western Reserve Univ., Dept. Chem., Cleveland, Ohio, 44115 USA): Thermal decomposition of some *t*-alkyl peroxyoxalates. *J. Org. Chem.* 35 (1970) 1223
- SHIAO, D. D. F. (Yale Univ., Dept. Molec. Biophys., New Haven, Conn., 06520 USA): Calorimetric investigations of the binding of inhibitors to α -chymotrypsin. II. A systematic comparison of the thermodynamic functions of binding of a variety of inhibitors to α -chymotrypsin. *Biochemistry* 9 (1970) 1083
- SIDNEV, A. I., KHVASHCHEVSKAYA, Y. V., MOISEEV, A. F., PRAVEDNIKOV, A. N. (Karpov Phys. Chem. Inst., Moscow, USSR): About thermooxidative degradation of polyphenylbutoxysiloxanes. *Vysokomolekul. Soedin. Ser. A* 12 (1970) 362 (In Russian)
- SIMCHEN, A. E. (Israel Minist. Defence, Sci. Dept., Tel Aviv, Israel): Thermal decomposition kinetics of ammonium perchlorate by TGA in air. *Isr. J. Chem.* 7 (1969) 813
- SINGH, S., DAVENPORT, J. C., MILLS, N. D. (Howard Univ., Dept. Phys., Washington, D. C., 20001 USA): Thermal expansion of erbium, thulium and ytterbium sesquioxides. *J. Am. Ceram. Soc.* 53 (1970) 169
- SMITH, M. R., IRGOLIC, K. J., MEYERS, E. A., ZINGARO, R. A. (Texas Univ., Dept. Chem., College Station, Texas, 77840 USA): The enthalpies of fusion and transition and X-ray powder patterns of 20 di-*n*-alkylarsinic acids. *Thermochim. Acta* 1 (1970) 51
- SOLACOLU, S., DINESCU, R., ZAHARESCU, M. (Acad. Bucharest, Inst. Phys. Chem., Bucharest, Roumania): Die thermischen Phasengleichgewichte des Systems BaO—TiO₂—V₂O₅. *Rev. Roum. Chim.* 15 (1970) 401
- SOLYMOSSI, F., BÁNSÁGI, T. (Gas Kinetics Res. Group, Hung. Acad. Sci., Szeged, Rerrich B. tér, Hungary): Decomposition and ignition of ammonium perchlorate in the presence of SnO₂—Cr₂O₃ catalysts. *Proc. Sec. Int. Conf. Space Eng.* 145 p. (D. Reidel Publ. Comp., Dordrecht — Holland)
- STERMITZ, F. R., HUANG, W. H. (Colorado State Univ., Dept. Chem., Fort. Collins, Colo., 80521 USA): Thermal and photodecarboxylation of pyridylacetic acids and photocleavage of some 2-substituted pyridines. *J. Am. Chem. Soc.* 92 (1970) 1446
- STILL, J. E., CLULEY, H. J. (Gen. Electr. Co. Ltd., Cen. Res. Lab., Wembley, Middls., England): Abbreviations in thermal analysis. (Letter to the editor) *Chem. Ind.* (1970) 449
- TAKASAGO, M., HORIKAWA, K., MASUYAMA, S. (Osaka Municipal Tech. Res. Inst., Kita-ku, Osaka, Japan): Studies on monoglycerides by the differential scanning calorimetry. I. The determination of heat of fusion of 1-monopalmitin and isomerization of 2-monopalmitin. *Oil Chemistry* 19 (1970) 12 (In Japanese)
- TAKATSUKI, K., MURATA, I., KITAHARA, Y. (Osaka Univ. Fac. Sci., Toyonaka, Osaka, Japan): Thermal dimerization of tropilidene. *Bull. Chem. Soc. Jap.* 43 (1970) 966
- TANAKA, N., SATO, K. (Tohoku Univ., Fac. Sci., Katahira-cho, Sendai, Japan): The thermal decomposition of potassium trioxalatoferrate(III)trihydrate. *Bull. Chem. Soc. Jap.* 43 (1970) 789
- TER MINASSIAN, L., PETIT, J. C., VAN KIET, N., BRUNAUD, C. (Lab. Chim. Phys., Paris 5^e, France): Mesures calorimétriques des coefficients de dilation et de compressibilités absolus. *J. Chim. Phys.* 67 (1970) 265

- VIOLA, A., IORIO, E. J. (Northeastern Univ., Dept. Chem., Boston, Mass., 02115 USA): Vapor phase thermolyses of 3-hydroxy-1,5-hexadienes. V. The preparation of allyl vinyl ketone. *J. Org. Chem.* 35 (1970) 856
- VIVIEN, D., LIVAGE, J., MAZIÈRES, C. (ENSCP, Paris, France): Nature des précipités d'oxydes hydratés des métaux du groupe IV. A. I. Analyse thermique et spectroscopie infrarouge. *J. Chim. Phys.* 67 (1970) 199
- VEDEJS, E., SHEPERD, R. A., STEINER, R. P. (Univ. Wisconsin, Dept. Chem., Madison, Wisc., 53706 USA): Thermal reactions of some tricyclo [5.3.0.0^{2,10}] decatriene derivatives. *J. Am. Chem. Soc.* 92 (1970) 2158
- VOL'NOV, I. I., LATYSHEVA, E. I. (Kurnakov Gen. and Inorg. Chem. Inst., Moscow, USSR): Investigation of thermal stability of magnesium peroxide. *Izv. Akad. Nauk SSSR Ser. Khim.* (1970) 13 (In Russian)
- Vos, H. L., (Farm. Lab., Rijksuiv. Univ. Leiden, Leiden, Netherlands): Thermal stability of some WHO (World Health Organisation) melting point reference compounds. *Pharm. Weekb.* 104 (1969) 619 (In Dutch)
- WACHI, F. M., GILMARTIN, D. E. (Aerosp. Corp., Mat. Sci. Lab., El Segundo, Calif., 90045 USA): High-temperature mass spectrometry I. Free vaporization studies of graphites. *Carbon* 8 (1970) 141
- WARING, C. E., FEKETE, A. J. (Univ. Connecticut, Dept. Chem., Storrs, Conn., 06268 USA): The kinetics of the thermal decomposition of 1,1,1-trifluoroacetone. *J. Phys. Chem.* 74 (1970) 1007
- WARING, C. E., KRASINS, G., (Univ. Connecticut, Dept. Chem., Storrs, Conn., 06268 USA): The kinetics and mechanism of the thermal decomposition of nitroglycerin. *J. Phys. Chem.* 74 (1970) 999
- WENDLANDT, W. W. (Univ. Houston, Dept. Chem., Houston, Texas, 77004 USA): The detection of quadruple points in metal salt hydrate systems by electrical conductivity measurements. *Thermochim. Acta* 1 (1970) 11
- WENDLANDT, W. W., DOSCH, E. L. (Univ. Houston, Dept. Chem., Houston, Texas, 77004 USA): A controlled atmosphere sample holder for dynamic reflectance spectroscopy. *Thermochim. Acta* 1 (1970) 103
- WESTRUM, E. F., GRØNVOLD, F. (Univ. Michigan, Dept. Chem., Ann Arbor, Mich., 48104 USA): Manganese disulfide (Hauerite) and manganese ditelluride. Thermal properties from 5 to 350° K and antiferromagnetic transitions. *J. Chem. Phys.* 52 (1970) 3820
- WHITESIDES, G. M., STEDRONSKY, E. R., CASEY, C. P., SAN FILIPPO, J. (Mass. Inst. Technol., Dept. Chem., Cambridge, Mass., 02139 USA): Mechanism of thermal decomposition of *n*-butyl(tri-*n*-butylphosphine)copper(I). *J. Am. Ceram. Soc.* 92 (1970) 1426
- WIBERG, N., JOO, W. C. (Univ. München, Inst. Anorg. Chem., München, GFR): Zum Mechanismus der Thermolyse von Silylazid-Grignard-Addukten. *J. Organometal. Chem.* 22 (1970) 349
- WILOTH, F., SCHINDLER, E. (AKZO Res. and Engn. N.V., Forsch. Inst., Obernburg, GFR): Zur thermischen Zersetzung von Nylon 66. II. Thermolyse von 2-[*n*-Hexylimino]-Cyclopentan-Carbonsäure-(1)-*n*-Hexylamid. Isocyanatabspaltung aus α -Carbamoyl-Cyclopentanoniminen. *Chem. Ber.* 103 (1970) 757
- WOLFGANG, R., KLAUS, E.: Thermolysis of bicyclo [2,1,0] pentane-5-spiro-cyclopropane. *Ann. Chem.* 733 (1970) 44 (In German)
- ZAPOLSKII, S. V., TOLMACHEVA, L. N., MIKHEEVA, V. I. (Kurnakov Gen. and Inorg. Chem. Inst., Moscow, USSR): Thermal decomposition of potassium and lithium hydridoborates. *Zh. Neorg. Khim.* 15 (1970) 413 (In Russian)
- ZEGEL'MAN, V. I., ZIL'BERMAN, E. N.: Effect of crystallinity on thermostability of telomer vinylchloride. *Vysokomolekul. Soedin, Ser. B* 12 (1970) 177 (In Russian)
- ZIMMERMAN, H. E., IWAMURA, H. (Univ. Wisconsin, Dept. Chem., Madison, Wisc., 53706 USA): Thermal and photochemical interconversions of cyclooctatetraenes and semibullvalenes. Exploratory organic photochemistry LII. *J. Am. Chem. Soc.* 92 (1970) 2015

- YAMASHITA, T., WAKI, K.: Differential thermal analysis of copolymers; A study on packing. *Jap. Anal.* 19 (1970) 423 (In Japanese)
- YATES, B. L., QUIJANO, J. (Univ. Valle, Dept. Quimica, Cali, Colombia): Thermal decomposition of β -hydroxy esters. Ethyl-3-hydroxy-3-methylbutanoate. *J. Org. Chem.* 35 (1970) 1239