Bibliography Section

ADAMS, G. P., MARGRAVE, J. L., WILSON, P. W. (Rice Univ., Dept. Chem., Houston, Texas, 77001 USA): The enthalpy of formation of germanium difluoride. *J. Chem. Thermodyn. 2* (1970) 741

AGABALYANTS, E. G., KRUGLITSKY, N. N., MKHITARYAN, A. A., SIMUROV, V. V., MAKAROV, A. S., DZHULAY, V. K. (Acad. Sci. UkSSR, Kiev, UkSSR): Effect of ultrasonic treatment on montmorillonite thermostability. *Dopov. Akad. Nauk Ukr, RSR B* (1970) 813 (In Ukrainian)

ALAMINOV, K., ANDONOVA, N. (Sofia Sci. Res. Chem. Ind. Inst., Sofia, Bulgaria): Thermodegradation of the polymers with aromatic rings and isocyanuric cycle in the chain. *Vysokomolekul. Soedin. Ser. A 12* (1970) 2129 (In Russian)

ALBERT, J., MÁTRAI, J. (Silicate Ind. Cent. Res. and Des. Inst., Budapest 10, Hungary): Processes during the firing of brick clays. *Építőanyag 21* (1969) 201 (In Hungarian)

ANDERSON, D. F., MCKENZIE, D. A. (Union Carbide Corp., Tarrytown Tech. Ctr., Tarrytown, N. Y., 10591 USA): Mechanism of the thermal stabilization of poly(vinylchloride) with metal carboxylates and epoxy plasticizers. *J. Polymer Sci. A-1, 8* (1970) 2905

ANDO, W., MATUYAMA, H., NAKAIDO, S., MIGITA, T. (Gunma Univ., Dept. Chem., Kiryu, Gunma, Japan): Demethoxycarbonylation on thermolysis of dimethyl halogenomalonates. *J. Chem. Soc. D* (1970) 1156

ANTIPOVA, V. F., MAREI, A. I., APUKHTINA, N. P., MOZHUKHINA, L. V., MELAMED, V. I. (S. V. Lebedev Sci., Res. Synth. Rub. Inst., Leningrad L—35, USSR): Effect of nature of diisocyanate on thermooxidative resistance of polyurethanes of ester type. *Vysokomolekul. Soedin. Ser. A 12* (1970) 2242 (In Russian)

ATOVMYAN, E. G., ARUTUNYAN, E. S., LUKOVNIKOV, A. F. (Acad. Sci. USSR, Chem. Phys. Inst., Moscow, USSR): Retarding effect of KOH on thermooxidative degradation of polyoxymethylenes. *Vysokomolekul. Soedin. Ser. B 12* (1970) 675 (In Russian)

AUDISIO, S., MONNIER, G., PROST, M. (Inst. Natl. Sci. Appl. Lab. Chim. and Sci. Matériaux, 69-Villeurbanne, France): Sur l'oxydation à haute température du fer Armco cémenté en phase gazeuse par le silicium. *Compt. Rend. Sér. C 271* (1970) 844

BADZIOCH, S., HAWKSLEY, G. W. (BCURA Ind. Labs., Leatherhead, Surrey, England): Kinetics of thermal decomposition of pulverized coal particles. *Ind. Eng. Chem. 9* (1970) 521

BEECH, G., MARR, G., ASHCROFT, S. J. (Polytech. Wolverhampton, Dept. Appl. Sci., Wolverhampton, WV1 1LY, England): The thermochemistry of some acetonitrile and benzonitrile complexes of transition-metal halides. *J. Chem. Soc. A* (1970) 2903

BELOV, V. F., SHIPKO, M. N., GORELIK, S. S., LETYUK, L. M., KOBRYRA, N. V., KOROVUSHKIN, N. N. (Acad. Sci. USSR, Cryst. Inst., Moscow, USSR): Mössbauer study of ion directional ordering during thermomagnetic treatment. *Fiz. Tverd. Tela 12* (1970) 2740 (In Russian)

BELYAKOV, V. K., KOSOBUTSKAYA, A. A., SAVINOV, V. M., SOKOLOV, L. B., ERIN, A. F., BERLIN, A. A., IVANOV, A. V.

(Vladimir Sci. Res. Synth. Resins Inst., Vladimir, USSR): Thermal and thermo-oxidative degradation of isomeric poly-diphenylsulphonamides. *Vysokomolekul. Soedin. Ser. A 12* (1970) 2270 (In Russian)

BERG, L. G., PRIBYLOV, K. P., ABDURAKHMANOV, R. A. (Kazan State Univ., Inorg. Chem. Dept., 49 Kazan, USSR): Thermal chromium hydroxide dehydration. *Zh. Neorg. Khim. 15* (1970) 2618 (In Russian)

BERLIN, A. A., BELOVA, G. B., GRIGOROVSKAYA, V. A. (Acad. Sci. USSR, Phys. Chem. Inst., Moscow, USSR): Thermostability of oligomeric arylenes. *Vysokomolekul. Soedin. Ser. A 12* (1970) 2351 (In Russian)

BERLIN, A. A., IVANOV, A. A. (M. V. Lomonosov Fine Chem. Technol. Inst., Moscow, USSR): Changes of concentration of paramagnetic centers in polyconjugated systems at inhibition of thermooxidation of polymers. *Vysokomolekul. Soedin. Ser. A 12* (1970) 1860 (In Russian)

BERLIN, A. A., IVANOV, A. A., MIROTVORTSEV, I. I., GORYACHEVA, G. K. (M. V. Lomonosov Fine Chem. Technol. Inst., Moscow, USSR): Conversion of inhibitors of thermooxidation into polyconjugated compounds in course of growth of the inhibition activity. *Vysokomolekul. Soedin. Ser. B 12* (1970) 563 (In Russian)

BERNARD, M. A., BUSNOT, A., BUSNOT, F. (Fac. Sci. Caen, Lab. Chim. Minérale B, Caen, France): Composés de solvatation de l'acétate de zinc par quelques amines. I. Préparation et stabilité thermique. *Bull. Soc. Chim. Fr.* (1970) 2867

BERNARD, M. A., LAISNE, J. P. (Fac. Sci. Caen, Lab. Chim. Minérale B, Caen, France): Action de la chaleur sur les carbamates métalliques. III. Carbamate d'argent. *Bull. Soc. Chim. Fr.* (1970) 2938

BERTORELLO, H. E., ROSSI, R. A., HOYOS DE ROSSI, R. (Univ. Nac. Córdoba, Inst. Ciencias Quim., Córdoba, Argentina): Thermal decomposition reactions of carboxybenzenediazonium salts. II. 1,3-dehydro aromatic compounds from *m*-carboxybenzenediazonium salts. *J. Org. Chem. 35* (1970) 3332

BIDINOSTI, D. R., COATSWORTH, L. L. (Univ. Western Ontario, Dept. Chem., London, Ont., Canada): Mass spectrometric study of the reaction of BF_3 with B_2O_3; the identification and heat of formation of B_2OF_4. *Can. J. Chem. 48* (1970) 2484

BIGGAR, G. M., O'HARA, M. J. (Edinburgh Univ., Dept. Geol., Edinburgh, Scotland): Melting of forsterite, monticellite, merwinite, spinel and periclase assemblages. *J. Am. Ceram. Soc. 53* (1970) 534

BOROS GYEVI, E., TÜDŐS, F. (Hungarian Acad. Sci., Cent. Res. Inst. Chem., Budapest 2, Hungary): Investigation of decomposition of azoisobutyronitrile in the melt and in the solid state. *Eur. Polymer. J. 6* (1970) 1383

BOROS, M., BALÁZS, G. (Techn. Univ., Inst. Bldg. Mat., Budapest 11, Hungary): Hydration of C_3A—$CaSO_4$—H_2O systems. Derivatographic studies in the first 48 hours. *Építőanyag 21* (1969) 269 (In Hungarian)

BOROS, M., BALÁZS, G. (Techn. Univ., Inst. Bldg. Mat., Budapest 11, Hungary): Hydration processes in the system C_3A—$CaSO_4$—H_2O. *Építőanyag 22* (1970) 30 (In Hungarian)

BOROS, M., BALÁZS, G. (Techn. Univ. Inst. Bldg. Mat., Budapest 11, Hungary): Examination of the effect of freezing on the hydration of the system C_3A—$CaSO_4$—H_2O. A derivatographical study. *Építőanyag 22* (1970) 379 (In Hungarian)

BOUVAIST, J., WEIGEL, D. (Fac. Sci. Rennes, Lab. Chim., Gén. B, Rennes, France): Sesquioxide de plomb, Pb_2O_3. I. Détermination de la structure. *Acta Crystallogr. A 26* (1970) 501

BOUVAIST, J., WEIGEL, D. (Fac. Sci. Rennes, Lab. Chim. Gén. B, Rennes, France): Sesquioxyde de plomb, Pb_2O_3. II. Etude de la dilatation thermique d'un monocristal. *Acta Crystallogr. A 26* (1970) 510

BRAUN, D., WEISS, F. (Deutsch. Kunststoff Inst., Darmstadt, GFR): Zum Mechanismus der thermischen Abspaltung von Chlorwasserstoff aus Polyvinylchlorid. 8. Copolymere aus Vinylchlorid und 2-Chlorpropen als polymere Modelle für tertiäre Chloratome in PVC. *Angew. Makromol. Chem. 13* (1970) 55

BRAUN, D., WEISS, F. (Deutsch. Kunststoff Inst., Darmstadt, GFR): Zum Mechanismus der thermischen Abspaltung von Chlorwasserstoff aus Polyvinylchlorid. 9. Zur Struktur der Verzweigungen in

Polyvinylchlorid. *Angew. Makromol. Chem. 13* (1970) 67

BRETSCHNEIDER, E., ROGERS, D. W. (Long Island Univ., Brooklyn Ctr., Chem. Dept., Brooklyn, N. Y., 11201 USA): A new microcalorimeter: Heats of hydrogenation of four monoolefins. *Mikrochim. Acta* (1970) 482

BROS, J. P., LAFFITTE, M. (CNRS, Ctr. Rech. Microcalorimétrie et Thermochim., 13-Marseille, France): Etude thermodynamique des alliages gallium-étain. *J. Chim. Phys. 67* (1970) 1636

BROWN, R. F. C., BUTCHER, M. (Monash. Univ., Dept. Chem., Clayton, Australia): The pyrolysis of polycarbonyl compounds. V. Pyrolysis of 3,3,6,8-tetramethyltetralin-1,2-dione at 650°. *Aust. J. Chem. 23* (1970) 1907

BUSFIELD, W. K., MERIGOLD, D. (Univ. Dundee, Dept. Chem., Dundee, DD1 4HN, Scotland): The thermodynamics of polymerisation of aldehydes and cyclic ethers. *Makromol. Chem. 138* (1970) 65

CARPENTER, G. A., ZIMMER, M. F., BAROODY, E. E., ROBB, R. A. (c/o E. E. Baroody, USN, Ordnance Stn., Indian Head, M.D., 20640 USA): Enthalpy of formation of bromotrinitromethane. *J. Chem. Eng. Data 15* (1970) 553

CARSON, A. S., CARSON, E. M., LAYE, P. G., SPENCER, J. A. STEELE, W. V. (Univ. Leeds, Dept. Phys. Chem., Leeds, LS2 9JT, England): Enthalpy of combustion of organometallic compounds measured with a vacuum-jacketed, rotating, aneorid calorimeter. *Trans. Faraday Soc. 66* (1970) 2459

CARSON, A. S., LAYE, P. G., SPENCER, J. A., STEELE, W. V. (Univ. Leeds, Dept. Phys. Chem., Leeds, LS2 9JT, England): The enthalpy of combustion of organo-metallic compounds measured with a vacuum-jacketed aneorid calorimeter. The enthalpy of formation of di-tin hexaphenyl and some associated bond energies. *J. Chem. Thermodyn. 2* (1970) 659

CARTER, R., DAVIDSON, A., SCHROEDER, P. A. (Michigan State Univ., Dept. Phys., E. Lansing, Mich., 48823 USA): Thermopower of cubic transition metals. *J. Phys. Chem. Solids 31* (1970) 2374

CATSIMPOOLAS, N., FUNK, S. K., MEYER, E. W. (Protein Res. Lab., Cent. Soya Chemurgy Div., Chicago, Ill., 60639 USA): Thermal aggregation of glycinin subunits. *Cereal Chem. 47* (1970) 331

CAVA, M. P., BRAVO, L. (c/o L. Bravo, Univ. Pennsylvania, Dept. Chem., Philadelphia, Pa., 19104 USA): The pyrolysis of some anhydrides of the pyrrole series. *Tetrahedron Lett.* (1970) 4631

CISMARU, D., ZERVUDIS, S. (Ctr. Phys. Chem., Bucharest, Roumania): Kinetics of the $Al_2O_3 + CoO$ reaction at high temperature accompanied by spinel formation in oxygen atmosphere. *Rev. Roum. Chim. 15* (1970) 1163

CHANG, F. C., WENDLANDT, W. W. (Univ. Houston, Dept. Chem., Thermochem. Lab., Houston, Texas, 77004 USA): Thermal reactions of coordination compounds. I. Dichlorbis(ethylenediamine)- and diaquobis(ethylenediamine)cobalt(III) complexes. *J. Inorg. Nucl. Chem. 32* (1970) 3535

CHAVRET, M., CLÉCHET, P., MERLIN, J. C. (Fac. Sci. Lyon, Ctr. Chim. Analyt., Lyon, France): Mise au point d'une nouvelle méthode d'analyse thermométrique. *Bull. Soc. Chim. Fr.* (1970) 3745

COCKS, A. T., FREY, H. M. (c/o H. M. Frey, Reading Univ. Chem. Dept., Reading RG6 2AD, England): The thermal unimolecular decomposition of t-butylcyclobutane. *J. Chem. Soc. A* (1970) 2566

COLIN, J. M., MOLIVET, J. P., LEFEBVRE, J. (Fac. Sci. Paris, Lab. Chim., Paris, France): Étude de la polymérisation par voie thermique de l'hexahydroxoantimoniate d'argent. *Compt. Rend. Sér. C 271* (1970) 635

COMEL, C., MENTZEN, B., MURAT, M. (Inst. Natl. Sci. Appl. Lyon, Lab. Cinétique Chim., 69-Villeurbanne, France): Mise en évidence par analyse thermique différentielle de la complexité cinétique d'une réaction de déshydratation. *Compt. Rend. Sér. C* 271 (1970) 331

CONNER, J. M. (Regis Coll., Dept. Chem., Denver, Colo., 80221 USA): Thermodynamics of formation of hexose-borate complexes. *J. Inorg. Nucl. Chem. 32* (1970) 3545

CROSS, S. B., KEYNES, R. D.: Differential flow microcalorimeter. *J. Physiol. London 210* (1970) 112 P

DALVI, A. D., SMELTZER, W. W. (Mc Master Univ., Dept. Met. and Mat. Sci., Hamilton, Ont., Canada): Thermodynamics of the iron-nickel-oxygen system at 1000°C. *J. Electrochem. Soc. 117* (1970) 1431

DAUTZENBERG, NORBERT: Sintering processes in the system iron-copper followed up by dilatometric and hot-plate microscopic examinations. *Arch. Eisenhüttenw. 41* (1970) 1005 (In German)

DAVIS, H. H., BRANSKY, I., TALLAN, N. M. (Aerospace Res. Labs., Wright-Patterson AFB, Ohio, 45433 USA): Observation of a phase transformation in Eu_3S_4 at 168°K. *J. Less-Common Metals 22* (1970) 193

DAVTYAN, S. P., KOMAROV, B. A., ROSENBERG, B. A., ENIKOVOPYAN, N. S. (Phys. Chem. Inst., Moscow, USSR): Kinetics of thermostabilization of polyformaldehyde. *Vysomolekul. Soedin. Ser. A 12* (1970) 1687 (In Russian)

DE MAYO, P., VERDUN, D. L. (Univ. Western Ontario, Dept. Chem., London, Ont., Canada): The thermal fragmentation of cyclohexanone. *J. Am. Chem. Soc. 92* (1970) 6079

DERGE, K., SCHNEIDER, R. (Tilsiterstr. 9, Kelheim, GFR): Thermoanalyse — eine vielseitige analytische Methode. *Chem. Ztg. 94* (1970) 718

DOLLIMORE, D., JONES, T. E., SPOONER, P. (Univ. Salford, Dept. Chem. and Appl. Chem., Salford, M5 41 NT, England): Thermal decomposition of oxalates. XI. Dehydration of calcium oxalate monohydrate. *J. Chem. Soc. A* (1970) 2809

DOMRACHEV, G. A., VYSHINSKII, N. N. (Acad. Sci. USSR, Chem. Inst., Gorki, USSR): The mechanism of thermal decay of bis-aren-chromium(O) and other organometallic compounds. *Dokl. Akad. Nauk SSSR 194* (1970) 583 (In Russian)

DUGAN, P., MORAN, V. J. (Australian Coal Ind. Res. Labs., Sydney, Australia): Aspects of the thermal analysis of coals in presence of air. *Fuel 49* (1970) 415

DUNLOP, A. N., PRICE, S. J. W. (Univ. Toronto, Dept. Chem. Eng. and Appl. Chem., Toronto, Ont., Canada): Pyrolysis of dimethylzinc and dimethylzinc-d_6 by the toluene carrier method. *Can. J. Chem. 48* (1970) 3205

DWORKIN, A. S., BREDIG, M. A. (Oak Ridge Natl. Lab., Chem. Div., Oak Ridge, Tenn., 37830 USA): Enthalpy of alkali metal fluoroborates from 298—1000°K. Enthalpies and entropies of fusion and transition. *J. Chem. Eng. Data 15* (1970) 505

EGGER, K. W., JAMES, T. L. (Monsanto Res. SA., 8050 Zürich, Switzerland): Thermal decomposition of 1-methyl-3-phospholene. *Trans. Faraday Soc. 66* (1970) 2560

ESPADA, L., PILCHER, G., SKINNER, H. A. (Univ. Manchester, Chem. Dept., Manchester M13 9PL, England): Hot-zone reaction calorimetry. II. The enthalpies of formation of lead oxides. *J. Chem. Thermodyn. 2* (1970) 647

EWING, M. B., MARSH, K. N., STOKES, R. H., TUXFORD, C. W. (Univ. New England, Dept. Phys. and Inorg. Chem., Armidale, N. S. W. 2351, Australia): The isothermal displacement calorimeter: design refinements. *J. Chem. Thermodyn. 2* (1970) 751

FENOCHKA, B. V., GORDIENKO, S. P., FESENKO, V. V.: Thermodynamic functions of gaseous monosulfides of rare-earth elements. *Zh. Fiz. Khim. 44* (1970) 2033 (In Russian)

FIEVET, F., LAGIER, J. P., PEZERAT, H., DUBERNAT, J. (Fac. Sci. Paris, Lab. Chim. Solides, 75-Paris 5e, France): Influence des différences structurales sur la déshydration thermique des diverses variétés de l'oxalate de cobalt II dihydraté. *Compt. Rend. Sér. C 271* (1970) 549

FINTA, Z., VÁRHELYI, Cs., ZSAKÓ, J. (Babeş-Bolyai Univ., Fac. Chem., Cluj, Roumania): Kinetics and mechanism of substitution reactions of complexes. XXI. New derivates of the dithiocyanato-bis-dimethylglyoximatocobalt(III)-acid and the aquation of the $[Co(DH)_2(NCS)_2]^-$ion. *J. Inorg. Nucl. Chem. 32* (1970) 3013

FREDRICKSON, D. R., CHASANOV, M. G. (Argonne Natl. Lab., Chem. Engn. Div., Argonne, Ill., 60439 USA): Enthalpy of uranium dioxide and sapphire to 1500 K° by drop calorimetry. *J. Chem. Thermodyn. 2* (1970) 623

FREY, H. M., METCALFE, J. (Reading Univ., Chem. Dept., Reading RG6 2AD, England): The thermal isomerization and dehydrogenation of cis-3a,7a-dihydroindene. *J. Chem. Soc. A* (1970) 2529

FREY, H. M., METCALFE, J., BROWN, J. M. (Univ. Reading, Dept. Chem., Reading RG6 2AD, England): The thermal isomerization of cyclobutanes. XV. Rates of isomerization of *exo-* and *endo*-tricyclo-[4,2,1,$0^{2,5}$] nona-3,7-diene and *exo-* and *endo*-tricyclo [4,2,1,$0^{2,5}$] non-3-ene. *J. Chem. Soc. B* (1970) 1586

GALLAGHER, P. K., PRESCOTT, B. (Bell Tel. Labs., Murray Hill, N. J., 07974 USA): Further studies of the thermal decomposition of europium hexacyanoferrate(III) and ammonium europium hexacyanoferrate(II). *Inorg. Chem. 9* (1970) 2510

GIAUQUE, W. F., FISHER, R. A., HORNUNG, E. W., BRODALE, G. E. (Univ. Calif., Dept. Chem., Low Temp. Lab., Berkeley, Calif., 94720 USA): Magnetothermodynamics of single-crystal $CuSO_4 \cdot 5H_2O$. V. Fields along the β axis. Thermodynamic temperature without heat introduction below 0.5°K. A reference at 0.035°K. *J. Chem. Phys. 53* (1970) 3733

GLAGOLEVA, Y. A., FRATKINA, G. P. (Plastic Res. Inst., Moscow, USSR): Thermooxidative degradation of some methylsubstituted styrene polymers. *Vysokomolekul. Soedin. Ser. A 12* (1970) 1994 (In Russian)

GOLOVIN, A. I., ALEXANDROVA, D. N., DUGACHIOVA, G. M. (Moscow State Univ., Phys. Chem. Dept., Moscow, USSR): Thermal analysis of coumarinephenol system. *Vestn. Mosk. Univ. Khim. 11* (1970) 619 (In Russian)

GONCHEL, V. G., KRASNOVA, T. L., MOSIN, A. M., CHERNYSHEV, E. A.: Silicon-containing heterocyclic compounds. IV. Thermochemical analysis of $p_\pi - d_\pi$-interactions for SiO bonds of dimethyl siloxarophenanthrene. *Zh. Obshch. Khim. 40* (1970) 1742 (In Russian)

GORE, R. H., WENDLANDT, W. W. (Univ. Houston, Dept. Chem., Thermochem. Lab., Houston, Texas, 77004 USA): Thermal dehydration of some 8-quinolinol chelate hydrates. *Anal. Chim. Acta 52* (1970) 83

GRASSIE, N., BAIN, D. R. (Univ. Glasgow, Chem. Dept., Glasgow, W. 2, Scotland): Thermal degradation of copolymers of styrene and acrylonitrile. I. Preliminary investigation of changes in molecular weight and the formation of volatile products. *J. Polymer Sci. A-1, 8* (1970) 2653

GRASSIE, N., BAIN, D. R. (Univ. Glasgow, Chem. Dept., Glasgow, W.2, Scotland): Thermal degradation of copolymers of styrene and acrylonitrile. II. Reaction products. *J. Polymer Sci. A-1, 8* (1970) 2665

GRASSIE, N., BAIN, D. R. (Univ. Glasgow, Chem. Dept., Glasgow, W.2, Scotland): Thermal degradation of copolymers of styrene and acrylonitrile. III. Chain-scission reaction. *J. Polymer Sci. A-1, 8* (1970) 2679

GREEN, W. V., WEERTMAN, J., ZUKAS, E. G. (Univ. Calif., Los Alamos Sci. Lab., Los Alamos, N. M., 87544 USA): High-temperature creep of polycrystalline graphite. *Mater. Sci. Eng. 6* (1970) 199

GREENWOOD, R. F. (City Univ. London, Dept. Chem., London, E. C. 1, England): Apparatus for the determination of melting points, molecular weights, freezing points and purity, and for the study of melting. *Talanta 17* (1970) 999

GRINBERG, Y. K., ZHUKOV, E. G., KORYAZHKIN, V. A. (N. S. Kurnakov Inst., Gen. and Inorg. Chem., Moscow, USSR): Thermal dissociation of B_2Se_3. *Zh. Fiz. Khim. 44* (1970) 2050 (In Russian)

GUÉRIN, H., MASSON, J., FRÉMONT-LAMOURANNE, R. (Fac. Sci. Orsay, Lab. Chim. Gaz. et Combustibles, 91-Orsay, France): Sur la pyrolyse des pyroarséniates alcalinoterreux. *Bull. Soc. Chim. Fr.* (1970) 3483

HACKATHORN, M. J., BROCK, M. J. (Firestone Tire and Rubber Co., Cent. Res. Labs., Akron, Ohio, 44317 USA): Polyisoprene structure from thermal degradation data. *J. Polymer Sci. B 8* (1970) 617

HARA, Y., OSADA, H. (Kyushu Inst. Technol., Sensui-cho, Tobata, Kitakyushu-shi, Japan): Thermal analysis of alkali salts of salicylic acid and p-hydroxybenzoic acid. *J. Chem. Soc. Jap. Ind. 73* (1970) 1996 (In Japanese)

HASSAN, S. A., EMEL'YANOVA, G. I.: On the methods of thermal stabilization of polycrystalline and adsorption catalysts. *Vestn. Mosk. Univ. Khim. 11* (1970) 617 (In Russian)

HAY, J. N. (Univ. Birmingham, Dept. Chem.,

Birmingham, Warwick, England): Thermal analysis of n-hectane. *J. Polymer Sci. B 8* (1970) 395

HEGYI-PAKÓ, J. (Silicate Ind. Cent. Res. and Des. Inst., Budapest 10, Hungary): Examination of the Dolomitized "Kőszikla" Rock. *Építőanyag 22* (1970) 336 (In Hungarian)

HEGYI-PAKÓ, J., VITÁLIS, G. (Silicate Ind. Cent. Res. and Des. Inst., Budapest 10, Hungary): Hydrothermal effects upon the raw materials of the cement industry. *Építőanyag 22* (1970) 69 (In Hungarian)

HIRAKAWA, K., FURUKAWA, M. (Univ. Tokyo, Inst. Solid State Phys., Minatoku, Tokyo, Japan): A high-sensitive, simple calorimeter for phase-change detection. *Jap. J. Appl. Phys. 9* (1970) 971

HISATSUNE, I. C., BEAHM, E. C., KEMPF, R. J. (Pennsylvania State Univ., Dept. Chem., Whitmore Lab., University Park, Pa., 16802 USA): Thermal decomposition of the acetate ion potassium halide matrices. *J. Phys. Chem. 74* (1970) 3444

HISATSUNE, I. C., LINNEHAN, D. G. (Pennsylvania State Univ., Dept. Chem., Whitmore Lab., University Park, Pa., 16802 USA): Thermal decomposition of the perchlorate ion in a potassium chloride matrix. *J. Phys. Chem. 74* (1970) 4091

HOLT, B. D., ENGELKEMEIR, A. G. (Argonne Natl. Lab., Chem. Div., Argonne, Ill., 60439 USA): Thermal decomposition of barium sulfate to sulfur dioxide for mass spectrometric analysis. *Anal. Chem. 42* (1970) 1451

HORIE, K., MITA, I., KAMBE, H. (Univ. Tokyo, Inst. Space and Aeronaut. Sci., Komaba, Meguro-ku, Tokyo, Japan): Calorimetric investigation of polymerization reactions. IV. Curing reaction of polyester fumarate with styrene. *J. Polymer Sci. A-1, 8* (1970) 2839

HOYOS DE ROSSI, R., BERTORELLO, H. A., ROSSI, R. A. (Univ. Nac. Córdoba, Inst. Ciencias Quim., Córdoba, Argentina): Thermal decomposition reactions of carboxybenzenediazonium salts. I. 1,4-dehydro aromatic compounds from p-carboxybenzenediazonium salts. *J. Org. Chem. 35* (1970) 3328

IBACH, H., RUIN, R. (Techn. Hochsch. Aachen, 2nd Phys. Inst., Aachen, GFR): Thermal expansion of tellurium. *Phys. Status Sol. 41* (1970) 719

IMAI, Y., HARA, S. (Tokyo Inst. Technol., Dept. Textile Engn., Meguro-ku, Tokyo, Japan): Thermal stability of polyimides containing diphenylamine structure. *Chem. High Polym. Tokyo 27* (1970) 661 (In Japanese)

IMAI, Y., UCHIYAMA, H. (Tokyo Inst. Technol., Dept. Textile Engn., Meguro-ku, Tokyo, Japan): Thermal stability of polyimide-benzothiazoles. *Chem. High Polym. Tokyo 27* (1970) 664 (In Japanese)

IKONNIKOV, A. A., VASILEV, V. P. (Ivanovo Chem. Technol. Inst., Ivanovo, USSR): Calorimeter with automatic recording "temperature-time" curves in determining true temperature drop during thermochemical experiments. *Zh. Fiz. Khim. 44* (1970) 1940 (In Russian)

INAGAKI, N., KATSUURA, K. (Shizuoka Univ., Fac. Engn., Johoku, Hamamatsu, Shizuoka, Japan): Effect of phosphorus on pyrolysis of cellulose—phosphate and $NH_4H_2PO_4$ containing cellulose. *J. Chem. Soc. Jap. Ind. 72* (1969) 2303 (In Japanese).

INAMOTO, N., YOSHIFUJI, M. (Univ. Tokyo, Fac. Sci., Bunkyo-ku, Tokyo, Japan): Thermal demercuration reactions of organomercurials. *Bull. Chem. Soc. Jap. 43* (1970) 2574

JASSE, V. (CNRS, Ecole Super Phys. et Chim. Ind., 75-Paris 5e, France): Étude par analyse thermique différentielle de l'interaction du chlorure de polyvinyle avec les plastifiants. *Compt. Rend. Sér. C 271* (1970) 491

JONES, D. W. (Univ. Leeds, Dept. Org. Chem., Leeds LS2 9JT, England): Preparation and thermolysis of a *cis*-tetrazene. *J. Chem. Soc. D* (1970) 1084

JOHNSON, G. K., VAN DEVENTER, E. H., KRUGER, O. L., HUBBARD, W. N. (Argonne Natl. Lab., Chem. Engn. and Mat. Sci. Div., Argonne, Ill., 60439 USA): The enthalpy of formation of plutonium monocarbide. *J. Chem. Thermodyn. 2* (1970) 617

KALININA, T. N. AFANAS'EVA, G. N., VOL'F, L. A., MEOS, A. I., KREMER, E. B., FRENKEL, S. YA., MNATSAKANOV, S. S.

(S. M. Kirov Inst. Textile and Light Ind., Leningrad, USSR): Thermographic study of polyvinyl alcohol and fibers on its basis. *Vysokomolekul. Soedin. Ser. B 12* (1970) 661 (In Russian)

KASHIWAGI, T., KOZUKA, S., OAE, S. (Osaka City Univ., Fac., Engn., Sumiyoshi-ku, Osaka, Japan): The decomposition of diacyl peroxides. I. The thermal decomposition of primary and secondary diacyl peroxide. *Tetrahedron 26* (1970) 3619

KELLOGG, K., LARSON, E. E., WATSON, D. E. (Univ. Colorado, Dept. Geol. Sci., Boulder, Colo., 80302 USA): Thermochemical remanent magnetization and thermal remanent magnetization: comparison in a basalt. *Science 170* (1970) 628

KERR, G. T., DZHULIAN, A. D. (Mobil Res. and Dev. Corp., Cent. Lab., Princeton, N. J., 08540 USA): Thermal decomposition of hydroxylammonium form of Y type zeolite. *Zh. Neorg. Khim. 15* (1970) 2331 (In Russian)

KHIN'KIS, S. S., KREITSER, T. V., EMEL'YANOVA, A. T., BAT', L. G. (Sci. Res. Inst., Polymers Plast., Moscow, USSR): Thermooxidative degradation of pentaplast in dependence of the method of polymerization. *Vysokomolekul. Soedin. Ser. A 12* (1970) 2014 (In Russian)

KIRKO, I. M., MALYGINA, G. E. (P. Stuchka State Univ., Riga, LaSSR): Hydrothermomagnet. *Dokl. Akad. Nauk SSSR 194* (1970) 1055 (In Russian)

KIRTOVSKAYA, G. I., VECHENA, R. K., KARLIVAN, V. P., DESHKO, R. A. (Riga Polytech. Inst., Riga, LaSSR): Derivatographic study of modified polyethylene. *Vysokomolekul. Soedin. Ser. A 12* (1970) 2247 (In Russian)

KISLITSYN, A. N., ISHCHERIKOV, E. V., ILINA, E. I.: Thermolysis of methylated xylane. *Zh. Prikl. Khim. 43* (1970) 1872 (In Russian)

KITAZAWA, A., OKUMA, N., MIZUTANI, N., KATO, M. (Tokyo Inst. Technol., Meguro-ku, Tokyo, Japan): Development of the differential gas analysis apparatus. *Jap. Anal. 19* (1970) 1299 (In Japanese)

KIYOURA, R., URANO, K. (Tokyo Inst. Technol., Meguro-ku, Tokyo, Japan): Mechanism, kinetics and equilibrium of thermal decomposition of ammonium sulfate. *Ind. Eng. Chem. 9* (1970) 489

KLEIN, J. (VEB Spezialglaswerk Einheit, Weiswasser, GDR): Untersuchungen über die physikalisch-chemischen Vorgänge bei der Silicat- und Glasbildung an technischen Rohstoffgemischen. *Silikattechnik 11* (1969) 372

KLEMPNER, D., FRISCH, H. L. (Univ. Massachusetts, Polymer Sci. Dept., Amherst, Mass., 01002 USA): Thermal analysis of polyacrylate-poly(urethane-urea) interpenetrating polymer networks. *J. Polymer Sci. B 8* (1970) 525

KLEYKAMP, H. (Kernforsch. Zentrum Karlsruhe, Karlsruhe, GFR): Freie Bildungsenthalpie von Palladiumoxid. *Z. Phys. Chem. Frankfurt 71* (1970) 142

KRIEG, R. E., LOCKHART, W. R. (USAF, Sch. Aerosp. Med. Biosci. Div., Brooks, AFB, Texas, 78235 USA): Analysis of thermal transition curves of deoxyribonucleic acid from microorganism. *Can. J. Microbiol. 16* (1970) 989

KOCH, P., CIUFFARIN, E., FAVA, A. (c/o A. Fava, Louisiana State Univ., Dept. Chem., Baton Rouge, La., 70803 USA): The thermal disproportionation in aryl arenethiosulfinates. Kinetics and mechanism. *J. Am. Chem. Soc. 92* (1970) 5971

KOMODA, R., NISHI, Y., KANO, M., IMOTO, T. (Ehime Univ., Fac. Engn., Matsuyama, Ehime, Japan): Thermal decomposition of lead carbonate tablets prepared by compressing fine particles. *Bull. Chem. Soc. Jap. 43* (1970) 2297

KUDRYAVTSEV, G. I., BALAKLEITSEVA, L. F., SHCHETININ, A. M. CHIKURINA, L. V. (All Union Sci. Res. Synth. Fibers Inst., Mytishchi, USSR): About thermostability of aromatic polyamides and polyimides. *Vysokomolekul. Soedin. Ser. A 12* (1970) 2205 (In Russian)

KUGLER, G. C., CAREY, G. H. (ESB Res. Ctr., Yardley, Pa., 19068 USA): Thermometric titration studies of mixed ligand complexes of thorium. *Talanta 17* (1970) 907

KUKUSHKIN, Y. N., SIBIRSKAYA, V. V. (Lensovet Technol. Inst., Gen. and Inorg. Chem. Dept., Leningrad, USSR): Platinum(IV) hexamine iodide and its thermal decomposition products. *Zh. Neorg. Khim. 15* (1970) 2757 (In Russian)

KUMPANENKO, E. N., VARSHAVSKAYA, A. T., KARMILOVA, L. V., ENIKOLOPYAN, N. S.

(Acad. Sci. Moscow, Inst. Chem. Phys., Moscow, USSR): Kinetics of thermal degradation of poly-1,3-dioxolane. *J. Polymer Sci. A-1, 8* (1970) 2375

KURACHENKOV, V. I., KURACHENKOVA, L. M., IGONIN, L. A. (Moscow Plastics Inst., Moscow, USSR): DTA-analysis of dimethylol derivates and polyoxybenzyl ethers based on p-phenoles. *Vysokomolekul. Soedin. Ser. B 12* (1970) 774 (In Russian)

KUSANO, K., WADSÖ, I. (Miyazaki Univ., Fac. Engn., Miyazaki, Japan): Enthalpies of vaporization of organic compounds. VI. Some disubstituted ethylene glycols. *Acta Chem. Scand. 24* (1970) 2037

KUSKOV, O. L., KHITAROV, N. I.: Thermodynamic constants of kaolinite and kinetic parameters of kaolinite dehydration. *Geochem. Int. 6* (1970) 1147

KUTELIYA, E. R., PANKRATOVA, L. S., ESTRIN, E. I.: Isothermal decomposition of austenite at high pressures. *Metalloved. Term. Obrab. Metal.* (1970) 8 (In Russian)

KUTHAN, J., KOSHMINA, N. V., PALEČEK, J., SKÁLA, V. (Inst. Chem. Technol., Dept. Org. Chem., Prague 6, Czechoslovakia): Thermal transformation of pyridinum salts. An HMO treatment. *Collect. Czech. Chem. Commun. 35* (1970) 2787

LALANCETTE, J. M., LACHANCE, A. (Univ. Sherbrooke, Fac. Sci., Dept. Chem., Sherbrooke, Que., Canada): Décarboxylation à basse température des β cétoesters. *Tetrahedron Lett.* (1970) 3903

LARSON, H. O., ING, K. Y. W., ADAMS, D. L. (Univ. Hawaii, Dept. Chem., Honolulu, Hawaii, 96822 USA): Thermal isomerization of N-phenyldibenzylnitrone. *J. Heterocycl. Chem. 7* (1970) 1227

LAZAREVA, L. S., AMBROZHII, M. N., DVORNIKOVA, L. M. (Saratov Univ., Chem. Res. Inst., Saratov, USSR): Thermography of europium, gadolinium and terbium valerates. *Zh. Neorg. Khim. 15* (1970) 2361 (In Russian)

LE BORGNE, G., WEIGEL, D. (Fac. Sci. Rennes, Lab. Chim. Gén. B, Rennes, France): Etude de la dilatation thermique du perchlorate de nickel hexahydraté entre —180 et 22°C. *Compt. Rend. Sér. C 271* (1970) 1040

LEISEGANG, E. C., STEPHEN, A. M., PATERSON-JONES, J. C. (Univ. Cape Town, Dept. Chem., Cape Town, S. Africa): The thermal degradation in vacuo of an amine-cured epoxide resin. *J. Appl. Polymer Sci. 14* (1970) 1961

LERBSCHER, J. A., WULFF, C. A. (Univ. British Columbia, Dept. Chem., Vancouver, B. C., Canada): Thermodynamic properties of mixed valency compounds. 1. The low temperature heat capacity and phase transitions of ammonium hexabromohypo-antimonate. *J. Chem. Thermodyn. 2* (1970) 717

LEVIT, A. F., KOROSTYSHEVSKII, I. Z., GRAGEROV, I. P. (L. V. Pisarzhevskii Phys. Chem. Inst., Kiev, UkSSR): Mechanism of thermal decomposition and photolysis of biphenyliodonium salts. *Zh. Org. Khim. 6* (1970) 1878 (In Russian)

LÖCSEI, B. (Silicate Ind. Cent. Res. and Des. Inst., Budapest 10, Hungary): Effect of grinding upon the kaolinite-AlF_3 reaction. *Építőanyag 22* (1970) 332 (In Hungarian)

MACKENZIE, R. C. (Macaulay Inst. Soil. Res., Craigiebuckler, Aberdeen, AB 9 2QJ Scotland): Nomenclature in thermal analysis. *J. Macromol. Sci. Chem. 4* (1970) 1015

MACRISS, R. A., PUNWANI, D., RUSH, W. F., BIERMANN, W. J. (Inst. Gas. Technol., Chicago, Ill., 60616 USA): Thermodynamic and physical properties of monomethylamine-lithium thiocyanate system. *J. Chem. Eng. Data 15* (1970) 466

MANIKYAM, D. S., SUNDARAM, E. V. (Osmania Univ., Dept. Chem., Hyderabad, India): Thermal decarboxylation of substituted chlorobenzoic acids. *Curr. Sci. 39* (1970) 463

MARCHIDAN, D. I., CIOPEC, M. (Inst. Phys. Chem., Str. Galaţi 31, Bucharest, Roumania): Thermal properties of potassium chloride high-temperature heat content. *Rev. Roum. Chim. 15* (1970) 1177

MARCHIDAN, D. I., CIOPEC, M. (Inst. Phys. Chem., Str. Galaţi 31, Bucharest, Roumania): High temperature enthalpy and related thermodynamic functions of some materials from the uranium-oxygen system. *Rev. Roum. Chim. 15* (1970) 1287

MARKOV, B. F., PODAFA, B. P. (Acad. Sci. UkSSR, Gen. and Inorg. Chem. Inst.,

Kiev, UkSSR): Thermodynamic characteristic of titanium halogenides in melts of halogenides of alkali metals. *Ukr. Khim. Zh. 36* (1970) 881 (In Russian)

MASSART, G., DESRÉ, P., BONNIER, E. (ENS Electrochim. et Electrométallurg., 38-Grenoble, France): Thermodynamique des alliages aluminium-argent. *J. Chim. Phys. 67* (1970) 1485

MATHUR, B. S., SRIVASTAVA, T. S. (Bhabha Atom Res. Ctr., Chem. Div., Bombay, India): Preparation, i. r. and thermogravimetric studies on triglycine rare earth chloride complexes. *J. Inorg. Nucl. Chem. 32* (1970) 3277

MATUI, S., AIDA, H. (Fukui Techn. Coll., Dept. Ind. Chem., Gesu, Sabae, Fukui, Japan): Thermal degradation of maleic anhydride-vinyl acetate copolymer. *Res. Reports Fukui Techn. Coll., Nat. Sci. Sec. 3* (1970) 79

MEDVEDEV, A. A., LAVROV, A. V., CHUDINOVA, N. N., TANANAEV, I. V. (N. S. Kurnakov Gen. and Inorg. Chem. Inst., Moscow, USSR): A study of chromium pyrophosphates and the products of their thermal transformations. *Izv. Akad. Nauk SSSR Neorg. Mater. 6* (1970) 1650 (In Russian)

MENT, W. M., MARINO, V. S. (FDA, Baltimore, M. D, 21201 USA): Stereochemical composition of *d*- and *l*-amphetamine mixtures by thermal analysis of the benzoyl derivates. *J. Ass. Offic. Anal. Chem. 53* (1970) 1097

MICHEJDA, C. J., HOSS, W. P. (Univ. Nebraska, Dept. Chem., Lincoln, Nebr., 68508 USA): Thermal decomposition of tetramethyl-2-tetrazene. Reactivity of the dimethylamino radical. *J. Am. Chem. Soc. 92* (1970) 6298

MIKHAIL, R. S., GUNIDY, N. M., HANAFI, S. (Ain Shams Univ., Fac. Sci., Dept. Chem., Cairo, UAR): Low-temperature dehydration of vermiculite. I. Rate of isothermal dehydration. *J. Appl. Chem. 20* (1970) 351

MILIUKOV, E. M.: The application of thermographic analysis technique to the study of liquation phenomena in glasses. *Izv. Akad. Nauk SSSR Neorg. Mater. 6* (1970) 1839 (In Russian)

MOORE, L. O. (Union Carbide Corp., Res. and Dev. Dept., S. Charleston, W.Va., 25303 USA): Pyrolysis of heptafluorobutyric anhydride. *J. Org. Chem. 35* (1970) 3201

MOYNIHAN, C. T., SCHNAUS, U. E. (Catholic Univ. Amer., Vitreous State Labs., Washington, D.C., 20017 USA): Heat capacity above 320°K and heat of fusion of hexagonal selenium. *Mater. Sci. Eng. 6* (1970) 277

MURRAY, A. W., VAUGHAN, K. (Univ. Dundee, Dundee DD1 4HN, Scotland): Thermolysis of 1,2,3-benzotriazin-4(3*H*)-one. *J. Chem. Soc. C* (1970) 2070

MUINOV, T. M. MAVLYANOV, A. M., MARUPOV, R. (S. U. Umarov Phys. Tech. Inst. Stalinabad, TaSSR): Studies of thermal degradation of the γ-irradiated polycaproamide by means of mass-spectrometry. *Vysokomolekul. Soedin. Ser. A 12* (1970) 1724 (In Russian)

NAKAZAWA, H., MORIMOTO, N. (Natl. Inst. Res. Inorg. Mat., Honkomagome 2-chome, Bunkyo-ku, Tokyo, Japan): Pyrrhotite phase relations below 320°C. *Proc. Jap. Acad. 46* (1970) 678

NIKITIN, E. N., ROZYEV, N.: Vapor pressure and thermal dissociation of Mg_9B^{IV} compounds. *Zh. Prikl. Khim. 43* (1970) 2093 (In Russian)

NISHIZAKI, S., MORIWAKI, T. (Mitsubishi Elect. Corp., Cent. Res. Lab., Amagasaki-shi, Japan): Formation of polyimide from poly(pyrometallitamic acid dialkyl esters). *J. Chem. Soc. Jap. Ind. 73* (1970) 1873 (In Japanese)

NOJIMA, H. (Meiji Univ., Fac. Engn., Ikuta, Kawasaki-shi, Japan): Zone melting of α-naphthol-naphthalene (eutectic system) and β-naphthol-naphthalene (mixed crystal system). *J. Chem. Soc. Jap. Pure 91* (1970) 810 (In Japanese)

OBOLONCHIK, V. A., MIKHLINA, T. M. (Acad. Sci. UkSSR, Mat. Technol. Inst., Kiev, UkSSR): Chemical and thermal stability of rare-earth metal selenides. *Izv. Akad. Nauk SSSR Neorg. Mater. 6* (1970) 1568 (In Russian)

OETTING, F. L. (Pow Chem. Co., Rockyflats Div., Golden, Colo., 80401 USA): On the true temperature rise in isoperibol calorimetry. *J. Chem. Thermodyn. 2* (1970) 727

OKUHASHI, T. (Teijin Ltd., Cent. Res. Inst., 1995 Hirayama, Hino-shi, Tokyo, Japan): Studies on the thermal behavior of polyamides. I. Determination of the extent of the degradation of polyamide fibers on thermal oxidation. *Chem. High Polym. 27* (1970) 562 (In Japanese)

OKUHASHI, T., KUWAHARA, M. (Teijin Ltd., Cent. Res. Inst., 1995 Hirayama, Hino-shi, Tokyo, Japan): Studies on the thermal behavior of polyamides. II. Thermal oxidation of fractionated polyamides. *Chem. High Polym. Tokyo 27* (1970) 628 (In Japanese)

OKUHASHI, T., KUWAHARA, M. (Teijin Ltd., Cent. Res. Inst., 1995 Hirayama, Hino-shi, Tokyo, Japan): Studies on the thermal behavior of polyamides. III. Thermal oxidation of polyhexamethyleneadipamide and di-*n*-butyl adipamide as its model compound. *Chem. High Polym. Tokyo 27* (1970) 637 (In Japanese)

O'NEAL, H. E. RICHARDSON, W. H. (San Diego State Coll., Dept. Chem., San Diego, Calif., 92115 USA): The thermochemistry of 1,2-dioxetane and its methylated derivates. An estimate of activation parameters. *J. Am. Chem. Soc. 92* (1970) 6553

ORAZMURADOV, A. O., TARASEVICH, Y. I. (Acad. Sci. UkSSR, Kiev-30, UkSSR): Effect of vacuuming temperature on moistening heat of clay minerals. *Ukr. Khim. Zh. 36* (1970) 806 (In Russian)

OSIPOV, G. A., BELYAEVA, M. S., KLIMENKO, G. K., ZAHKARIN, L. I., GAVRILENKO, V. V. (Acad. Sci USSR, Inst. Organoelemental Cpds., Moscow, USSR): Thermal decomposition of alkali metal tetrahydroaluminates. *Kinet. Katal. 11* (1970) 901 (In Russian)

OTA, T., MASUDA, S., KOBAYASHI, M. (Tokushima Univ., Fac. Engn., Minamijosanjima, Tokushima, Japan): Thermal degradation of poly(α-cyanovinyl acetate). *J. Chem. Soc. Jap. Ind. 73* (1970) 1866 (In Japanese)

PANDEY, A., BHATTACHARYA, R. (Indian Lac. Res. Inst., Namkum, Ranchi, India): Thermometric titration of shellac solution. *Indian J. Technol. 8* (1970) 310

PAUKOV, I. E., RAKHMENKULOV, F. S., DOBROLYUBOVA, M. S., TSENTSIPER, A. B. (N. S. Kurnakov Gen. and Inorg. Chem. Inst., Moscow, USSR): Heat capacity at low temperatures, phase transitions, entropy and enthalpy of rubidium superoxide. *Izv. Akad. Nauk. SSSR Ser. Khim.* (1970) 2135 (In Russian)

PAULSON, D. R., CRANDALL, J. K., BUNNELL, C. A. (c/o J. K. Crandall, Indiana Univ., Dept. Chem., Bloomington, Indiana, 47401 USA): Pyrolysis of alkenylidenecyclopropane and biscyclopropylidene systems. *J. Org. Chem. 35* (1970) 3708

PECHANEC, V., HORÁCEK, J. (Tschechoslowak. Akad. Wissensch., Prag, Tschechoslowakei): Bestimmung von Kohlenstoff und Wasserstoff in organischen Verbindungen. VII. Faktoren, die die katalytische Verbrennungswirksamkeit des durch thermische Zersetzung des Kobalt(II)-oxalats gewonnenen Kobalt(II,III)-oxides beeinflussen. *Collect. Czech. Chem. Commun. 35* (1970) 2749

PETIT, J., HAYE, J. (CNRS Lab. Chim. Macromoléc. Appl., Thiais, France): Sur la structure des polymères obtenus lors de la polymérisation thermique de l'huile de carthame. *Compt. Rend. Sér. C 271* (1970) 494

PIMENOVA, S. M., MASYUTINA, L. V., KOZINA, M. P., SKURATIV, S. M., SEIN, U. T., BOLESOV, I. G., LEVINA, R. Y.: Heats of combustion of *cis*- and *trans*-isomers of 1-phenylcyclo-2-propanecarboxylic acid. *Zh. Obshch. Khim. 40* (1970) 2117 (In Russian)

POCZOPKO, S., ERDMANN, K. (N. Copernicus Univ., Dept. Phys. Chem., Torun, Poland): Calorimetric investigations of KCl—$CO(NH_2)_2$—H_2O system at 25°C. *Rocz. Chem. 44* (1970) 1757 (In Polish)

POPL, M., KURAŠ, M., MOSTECKÝ, J. (Techn. Hochsch., Chem., Inst. Synt. Kraftstoffe und Erdöl, Prag 6, Tschechoslowakei): Analyse und Verwendung von Pyrolyseöl. II. Thermische Spaltung und Hydrokrakken des Pyrolyseharzes. *Erdöl Kohle 23* (1970) 492

PORUBSZKY, I., LIGETHY, L., LIPTAY, G. (Techn. Univ., Dept. Appl. Chem., Budapest 11, Hungary): Testing silicon rubber insulated wires. *Wire Industry 37* (1970) 1009

POSPELOVA, L. A., KOKUNOVA, V. N., ZAITSEV, L. M. (N. S. Kurnakov Gen. and

Inorg. Chem. Inst., Moscow, USSR): Thermogravimetry of sulfatocerates. *Zh. Neorg. Khim. 15* (1970) 2349 (In Russian)

PRADO, G., ECKHARDT, A., LAHAYE, J. (CNRS Ctr. Rech. Phys. Chim. Surfaces Solides, Mulhouse, France): Formation de particules de carbone par craquage thermique de benzène. *Compt. Rend. Sér. C 271* (1970) 433

PRICE, S. J. W., RICHARD, J. P. (Univ. Windsor, Dept. Chem., Windsor, Ont., Canada): The pyrolysis of trimethylarsine. *Can. J. Chem. 48* (1970) 3209

PRODAN, E. A., PAVLYUCHENKO, M. M., PYSYAK, Y., EGORTSEVA, L. I., SLYSHKINA, S. A. (Acad. Sci. BeSSR, Gen. and Inorg. Chem. Inst., Minsk, BeSSR): Effect of smithonite particle sizes on kinetics of its thermal decomposition in vacuum. *R cz. Chem. 44* (1970) 1549 (In Russian)

RABINOVICH, I. B.: Thermodynamics and thermochemistry of organoelemental compounds and polymers. *Vestn. Akad. Nauk SSSR* (1970) 123 (In Russian)

RAFIKOV, S. R., NEVSKII, V. M., YATSENKO, E. A., TRUNINA, F. I., GUTSALUK, V. G. (Acad. Sci. KaSSR, Inst. Chem. Sci., Alma Ata-2, KaSSR): Thermooxidative stability of the carbonized products obtained from phenolformaldehyde rezite and phenolformalite. *Vysokomolekul. Soedin. Ser. B 12* (1970) 673 (In Russian)

RAMAMURTHY, P., SECCO, E. A. (St. Francis Xavier Univ., Chem. Dept., Antigonish, N. S., Canada): Studies on metal hydroxy compounds. XI. Thermal analysis, decomposition kinetics, and infrared spectra of cadmium and zinc halide derivates. *Can. J. Chem. 48* (1970) 2656

RAMAMURTHY, P., SECCO, E. A., BADRI, M. (St. Francis Xavier Univ., Chem. Dept., Antigonish, N. S., Canada): Studies on metal hydroxy compounds. X. Thermal analysis, decomposition kinetics, and infrared spectra of lead halide (Cl, Br, J) derivates. *Can. J. Chem. 48* (1970) 2617

REIJNEN, P. J. L. (Radiotech. Compelec., Evreux, France): Thermogravimetric analysis applied to ferrites. *Philips Tech. Rev. 31* (1970) 24

RICHTER, F.: Ein kontinuierlich registrierendes Vertikaldilatometer bis 1600°C. *Z. Angew. Phys. 29* (1970) 367

ROBERTS, A. F. (Buxton, Derbyshire, England): A review of kinetic data for the pyrolysis of wood and related substances. *Oxidat. Combust. Rev. 4* (1970) 261

RODE, V. V., KOTSOEVA, N, M., CHERKASOVA, G. M., TUGUSHI, D. S., TSEITLIN, G. M., RUSHANOV, A. I., KORSHAK, V. V. (Acad. Sci. USSR, Elementorg. Cpds. Inst., Moscow, USSR): Thermal and thermooxidative degradation of some polybenzimidazoles at high temperature. *Vysokomolekul. Soedin. Ser. A 12* (1970) 1854 (In Russian)

ROMANOV, A., POLLÁK, V. (Slovak Acad. Sci., Polymer Inst., Bratislava, Czechoslovakia): Thermodynamic study of deformation of cross-linked ethylene-propylene copolymer. *J. Polymer Sci. A-2, 8* (1970) 1879

RUDLOFF, W. K., FREEMAN, E. S. (IIT Res. Inst., Chicago, Ill., 60616 USA): The catalytic effect of metal oxides on thermal decomposition reactions. II. The catalytic effect of metal oxides on the thermal decomposition of potassium chlorate and potassium perchlorate as detected by thermal analysis methods. *J. Phys. Chem. 74* (1970) 3317

SAJÓ, I., SIPOS, A. (Res. Inst. Iron Ind., Budapest 11, Hungary): Rapid analysis of glass by thermometric methods. *Építőanyag 22* (1970) 274 (In Hungarian)

SCHERZER, K., MÖBIUS, D., LIPPOLD, H., GEISELER, G. (Karl Marx Univ., Sekt. Chem., Leipzig, GDR): Zur Kinetik des thermischen Zerfalls von Pentandion-(2,3). *J. Prakt. Chem. 312* (1970) 335

SCHLECHTER, M. (European Inst. Transuranium Elements, Karlsruhe, GFR): The preparation of PuO_2 crystals by thermal decomposition of $Pu(SO_4)_2$ dissolved in chloride melts. *J. Nucl. Mater. 37* (1970) 82

SCHRADER, E., ZACHMANN, H. G. (Univ. Mainz, Inst. Phys. Chem., Ordinariat 2, Mainz, GFR): Statistisch-thermodynamische Untersuchung des vollständigen Gleichgewichtes zwischen Kristall und Schmelz bei Stoffen aus langen Kettenmolekülen. *Ber. Buns. Ges. Phys. Chem. 74* (1970) 823

SCHREINER, F., OSBORNE, D. W., POCIUS, A. V., APPELMAN, E. H. (Argonne Natl.

Lab., Chem. Div., Argonne, Ill., 6043 USA): The heat capacity of potassium perbromate $KBrO_4$, between 5 and 350°K. *Inorg. Chem. 9* (1970) 2320

SCOTT, G. G., STURNER, H. W., LARCHEZ, M. E. (Gen. Mot. Corp., Phys. Dept., Warren, Mich., 48090 USA): Thermomagnetic torque in dilute gases. *Phys. Rev. A Gen. Phys. 2* (1970) 792

SEIFER, G. B., TARASOVA, Z. A. (N. S. Kurnakov Gen. and Inorg. Chem. Inst., Moscow, USSR): Thermal decomposition of metal ferricyanides. *Zh. Neorg. Khim. 15* (1970) 2577 (In Russian)

SEMENCHENKO, U. K., BADRA, K. M. (M. V. Lomonosov State Univ., Moscow, USSR): Thermodynamics of rare earth metals at low temperatures. 1. C_p heat capacity of rare earth elements. *Zh. Fiz. Khim. 44* (1970) 1925 (In Russian)

SEVERNYI, V. V., NANUSN'YAN, S. R., FROMBERG, M. B., CHERNICHKINA, A. S., BEBCHUK, T. S., VOLKOVA, L. M., ANDRIANOV, K. A. (Acad. Sci. USSR, Elementoorg. Cpds. Inst., Moscow, USSR): Study of polymerization and thermal stability of polyorganosiloxanes with siloxane and silicocarbon links. *Izv. Akad. Nauk SSSR, Ser. Khim.* (1970) 2244 (In Russian)

SHAULOV, Y. K., FEDOROV, A. K., ZUEVA, G. Y., BORISYUK, G. V., GENCHEL, V. G. (Moscow Inst. Electr. Mach. Const., Moscow, USSR): Heat of combustion and organooxygermane formation. Energy of Ge—O bonds. *Zh. Fiz. Khim. 44* (1970) 2081 (In Russian)

SHAW, M. T., TOBOLSKY, A. V. (c/o A. V. Tobolsky, Princeton Univ., Dept. Chem., Princeton, N. J., 08540 USA): Thermal stability of the carbon-carbon cross-linkage in polymer networks. *Macromol. 3* (1970) 552

SIKOROV, V. N., UMANSKII, Y. S., EPSHTEIN, G. N. (Moscow Inst. Steels and Alloys, Moscow, USSR): High-temperature microcalorimeter for studying heat phenomena in metals and alloys. *Zavod. Lab. 36* (1970) 1132 (In Russian)

SIRINA, A. M., KALINICHENKO, I. I., PURTOV, A. I. (S. M. Kirov Polytech. Inst., Sverdlovsk, USSR): Thermal decomposition of cobalt, zinc copper and chromium nitrate hydrates. *Zh. Neorg. Khim. 15* (1970) 2430 (In Russian)

SMITH, R. F., ROSENTHAL, T. C., HUSSONG P. T., BURI, P. G. (State Univ., Coll. Arts and Sci., Dept. Chem., Geneseo, N. Y., 14454 USA): The thermolysis of trimethylamine phenylcarbamide. *Tetrahedron Lett.* (1970) 4007

SNITKOVSKAYA, L. M., SLAVNOVA, A. S., TROFILKINA, V. P., GREBENKOVA, M. K. (State Inst. Nitrogen Ind. and Org. Synth. Prod., Moscow, USSR): Thermal stability of hexamethylenediamine. *Zh. Vses. Khim. Ov.-Va, Mendel. 15* (1970) 450 (In Russian)

SORRELL, C. A. (Univ. Missouri, Dept. Ceramic Engn., Rolla, Mo., 65401 USA): Thermal expansion of orthorhombic PbO. *J. Am. Ceram. Soc., 53* (1970) 552

SPLITTER, J. S., CALVIN, M. (Univ. Calif., Dept. Chem., Berkeley, Calif., 94720 USA): A wavelength dependent photolysis and a thermal reduction resulting in deoxygenation of α,αN-triphenylnitrone. *Tetrahedron Lett.* (1970) 3995

STEIGER, R. P., MILES, J. C. (Rice Univ., Dept. Chem., Houston, Texas, 77001 USA): Mass spectrometric investigation of the thermal stability and vaporization of LaPo, NdPo, GdPo and DyPo. *J. Inorg. Nucl. Chem. 32* (1970) 3469

SUBBA RAO, V. V., MULAY, U. N. (Cement Res. Inst. India, 49 New Delhi, India): Thermogravimetric study of the decomposition of ammonium metavanadate. *Indian J. Chem. 8* (1970) 750

SUDARIKOV, B. N., SELEZNEV, V. P., RAKOV, E. G., KULYAKO, Y. M.: Ammonium pentafluorouranylate decomposition during heating. *Zh. Neorg. Khim. 15* (1970) 2773 (In Russian)

SVERAK, L., BONAR, R. A., BEARD, J. W. (Duke Univ., Med. Ctr., Dept. Surg., Durham, N. C., 27706 USA): Untersuchungen über die Thermostabilität der aus Hühnerfibroblasten isolierten Ribonucleinsäuren. *Monatsch. Chem. 101* (1970) 1483

SVIRIDOV, B. D., NIKIFOROV, G. A., ERSHOV V. V. (Acad. Sci. USSR, Phys. Chem. Inst., Moscow, USSR): Thermal decomposition of 2,6-di-tert. butyl-p-benzoquinonediazide in acetylene medium. *Izv. Akad. Nauk SSSR, Ser. Khim.* (1970) 2388 (In Russian)

TAMURA, H., TANAKA, M., MURATA, N. (Univ. Osaka Prefecture, Coll. Engn., Sakai, Osaka, Japan): Photo- and thermal--polymerization of N-vinylpyrrolidone—maleic anhydride methyl methacrylate ternary system. *Chem. High Polym. Tokyo 27* (1970) 652 (In Japanese)

TANNER, D. D., DAS, N. C. (Univ. Alberta, Dept. Chem., Edmonton, Alb., Canada): On the thermal and free-radical reactions of pyruvyl chloride and benzylformyl chloride. *J. Org. Chem. 35* (1970) 3972

TARASEVICH, Y. I., GOVOROV, A. A., TELICHKUN, V. P., RUDENKO, V. M., DMITRUK, T. A. (Acad. Sci. UkSSR, Kiev-30, UkSSR): Thermogravimetric investigation of cation substituted montmorillonite, saturated by organic substances. *Ukr. Khim. Zh. 36* (1970) 888 (In Russian)

TAYLOR, J. E.: The heat of formation of some calcium silicate hydrates. *Építőanyag 21* (1969) 87 (In Hungarian)

TEXIER, F., CARRIÉ, R. (Fac. Sci. Rennes, Grp. Rech. Physicochim. Struct., 35-Rennes, France): Obtention d'oxazolines-4,-ylures d'azométhines potentiels, lors de la thermolyse d'acyl-4 triazolines-1.2.3. *Compt. Rend. Sér. C 271* (1970) 958

THACKRAY, M. (Australian Atom Res. Estab., Lucas Heights, N.S W. 2232, Australia): Melting point intervals of sulfur allotropes. *J. Chem. Eng. Data 15* (1970) 495

THOMAS, T. H., KENDRICK, T. C. (Midland Silicones Ltd., Res. Dept., Barry, Glam., Wales): Thermal analysis of polysiloxanes. II. Thermal vacuum degradation of polysiloxanes with different substituents on silicon and in the main siloxane chain. *J. Polymer Sci. A-2, 8* (1970) 1823

THOMPSON, S. O., CHESTERS, G. (Univ. Wisconsin, Dept. Soil. Sci., Madison, Wisc., 53706 USA): Infra-red spectra and differential thermograms of lignins and soil humic materials saturated with different cations. *J. Soil Sci. 21* (1970) 265

TIEN, V. V., KHODADAD, P. (CNRS Fac. Pharm. Paris, Lab. Chim. Minérale, Paris 6e, France): Étude des combinaisons entre les surfures SmS et EuS avec les surfures MS (M = Mg, Ca, Sr, Ba); stabilité thermique de SmS. *Bull. Soc. Chim. Fr.* (1970) 2888

TITE, M. S. (Univ. Essex, Dept. Phys., Cholchester, Essex, England): An interpretation of thermal-expansion data from clay ceramics. *Trans. Brit. Ceram. Soc. 69* (1970) 183

TSUCHIYA, Y., SUMI, K. (Natl. Res. Council Canada, Div. Bldg. Res., Ottawa, Ont., Canada): Thermal decomposition products of cellulose. *J. Appl. Polymer Sci. 14* (1970) 2003

TURAPOV, A. (Chem. and Technol. Inst. Cotton Cellulose, Tashkent, UzSSR): Thermochemistry of solidification of unsaturated polyester resins. *Zh. Prikl. Khim. 43* (1970) 1814 (In Russian)

TVANNIKOV, V. L., MIRJASOV, N. Z., SEMKINA, V. A.: Activation energy in the formation of one axis magnetic anisotropy produced by thermomagnetic treatment. *Vestn. Mosk. Univ. Fiz. Astron.* (1970) 472 (In Russian)

UCHIYAMA, H., IMAI, Y. (Teijin Ltd., Cent. Res. Inst., 1995 Hirayama, Hino-shi, Tokyo, Japan): VI. Thermal stability of aromatic polyamide-imides. *Chem. High Polym. Tokyo 27* (1970) 670 (In Japanese)

VAN DALEN, M. J., VAN DEN BERG, P. J.: Thermodynamics of silicon compounds. II. Ethyl- and phenylchlorsilanes. *J. Organometal. Chem. 24* (1970) 277

VANDERZEE, C. E., WESTRUM, E. F. (Univ. Nebraska, Dept. Chem., Lincoln, Nebr., 68508 USA): Succinic acid. Heat capacities and thermodynamic properties from 5 to 328 K°. An efficient drying procedure. *J. Chem. Thermodyn. 2* (1970) 681

VAN DEVENTER, E. H., RUDZITIS, E., HUBBARD, W. N. (Argonne Natl. Lab., Chem. Engn. Div., Argonne, Ill., 60439 USA): The enthalpy of formation of thorium tetrafluoride by fluorine bomb calorimetry. *J. Inorg. Nucl. Chem. 32* (1970) 3233

VÁRHELYI, CS., ZSAKÓ, J., FINTA, Z. (Babeş-Bólyai Univ., Chem. Fac., Cluj, Roumania): Kinetics and mechanism of substitution reactions of complexes. XXIV. The hydrogen-bis 1,2-cyclopentane-dion-dioximoto-diselenocyanato-cobalt(III) acid and the aquation kinetics of the $[Co(CpdoxH)_2(NCSe)_2]^-$ ion. *Stud. Univ. Babeş-Bólyai, Chem. Ser. 15* (1970) 81

VAUGHAM, G. A., SWITHENBANK, J. J. (Coal Tar Res. Assoc., Cleckheaton, Yorks., England): The determination of phenolic hydroxyl groups in coal by thermometric titration. *Analyst 95* (1970) 890

VELIŠEK, J. (CSAV Ustav Fys. Met., Brno, Czechoslovakia): High temperature calorimetry. *Cesk. Cas. Fys. 20* (1970) 513 (In Czech)

VÉRTES, A., ZSOLDOS, B. (Eötvös Loránd Univ., Dept. Phys. Chem., Budapest 8, Hungary): A study on thermal decomposition of iron(II)-salt hydrates by Mössbauer spectroscopy. *Acta Chim. Acad. Sci. Hung. 65* (1970) 261

VINOGRADOVA, S. V., LEBEDEVA, A. S., GIL'MAN, L. M., RODE, V. V., ZHURAVLEVA, I. V., KOMAROVA, L. I., KORSHAK, V. V. (Acad. Sci. USSR, Elementoorg. Cpds. Inst., Moscow, USSR): Thermal destruction of polyketosulfides. *Izv. Nauk SSSR, Ser. Khim.* (1970) 2239 (In Russian)

VINOKUROVA, G. A., GEIDERIKH, V. A. (M. V. Lomonosov State Univ., Moscow, USSR): Thermodynamic properties of alloys in In—Ni systems. *Zh. Fiz. Khim. 44* (1970) 2094 (In Russian)

VIRNIK, R. B., ERSHOV, Yu. A., FRUNZE, N. K., LIVSHITS, R. M., BERLIN, A. A. (Acad. Sci. USSR, Phys. Chem. Inst., Moscow, USSR): Mechanism of thermo- and photodegradation of cellulose graft-copolymers. *Vysokomolekul. Soedin. Ser. A 12* (1970) 2279 (In Russian)

VÖLKER, E. J., PLEISS, M. G., MOORE, J. A. (c/o J. A. Moore, Univ. Delaware, Dept. Chem., Newark, Del., 19711 USA): Heterocyclic studies. 33. 5-methyl-6-phenyl-1,2-diazobicyclo [3.2.0]-2,6-heptadien-4-one. Thermolysis to 4-methyl-5-phenylpyridazine. *J. Org. Chem. 35* (1970) 3615

WAKEFIELD, Z. T., LUFF, B. B., REED, R. B. (Tenesse Valley Authority, Div. Chem. Dev., Muscle Shoals, Alabama, 35660 USA): Enthalpy of formation of ammonium hydrogen monoamidophosphate, $NH_4HPO_3NH_2$. *J. Chem. Eng. Data 15* (1970) 560

WENTHEN, F. T. (Gen. Electr. Lab., Syracuse, N. Y., 13201 USA): Computer-aided thermal analysis of power semiconductor devices. *IEEE Trans. Electron Devices ED-17* (1970) 765

WESTLAKE, D. G., OCKERS, S. T. (Argonne Natl. Lab., Mat. Sci. Div., Argonne, Ill., 60439 USA): Thermal expansion of vanadium and vanadium hydride at low temperatures. *J. Less-Common Metals, 22* (1970) 225

WHITE, I. G., GRIMSHAW, R. W. (Univ. Leeds, Dept. Min. and Mineral Sci., Leeds, Yorks., England): The determination of crystalline quartz by differential thermal analysis: a modification to technique. *Trans. Brit. Ceram. Soc. 69* (1970) 175

WRASIDLO, W., HERGENROTHER, P. M. (Boening Sci., Res. Labs., Polymer Sci. Lab., Seattle, Wash., 98124 USA): Thermal analysis of a poly(phenyl-*as*-triazine). *Macromol. 3* (1970) 548

YAKOBSON, G. G., MALYSHEVA, V. V., PLATONOV, V. E.: Thermolytic conversions of organopolyfluorine compounds. 6. Thermolysis of hexafluorobenzene in the presence of potassium chloride. *Zh. Org. Khim. 6* (1970) 1651 (In Russian)

YAMAJI, Y., NAKAGAWA, Y., MATSUDA, H., MATSUDA, S. (Osaka Univ., Fac. Engn., Suita, Osaka, Japan): Thermal decomposition of alkyltin mercaptides and their derivates. *J. Chem. Jap. Ind. 73* (1970) 2009 (In Japanese)

YODA, K., TSUBOI, A., WADA, M., YAMADERA, R. (Toyobo Co. Ltd., Katata Res. Inst., Honkatata, Ohtsu, Japan): Network formation in poly(ethylene terephthalate) by thermooxidative degradation. *J. Appl. Polymer Sci. 14* (1970) 2357

ZAIKIN, I. D., NAZARUK, L. N. (Lvov Polytech. Inst., Lvov, UkSSR): Heat of combustion of succinic acid. *Zh. Fiz. Khim. 44* (1970) 2422 (In Russian)

ZAPOROZHSKAYA, O. A., KOVARSKII, A. L., PUDOV, V. S., VASSERMAN, A. M., BUCHACHENKO, A. L. (Acad. Sci. USSR, Chem. Phys. Inst. Moscow B-334, USSR): Effect of thermooxidative degradation on molecular motion in polypropylene. *Vysokomolekul. Soedin. Ser. B 12* (1970) 702 (In Russian)