

## Bibliography Section

- ABBATE, F. W., FARRISSEY, W. J., SAYIGH, A. A. R. (Upjohn, Co., Donald S. Gilmore Res. Labs., N. Haven, Connecticut, 06473 USA): Urethanes. II. The effect of amine bases on the thermal degradation of carbanilates. *J. Appl. Polym. Sci.* 16 (1972) 1213
- ABRIOUX, M. F., DUPUIS, T., JAMBU, P. (Univ. Poitiers, Lab. Ped., Poitiers, France): Contribution de l'analyse thermique à l'étude des acides humiques et de leurs sels de sodium. *J. Thermal Anal.* 4 (1972) 383
- AFIFI-EFFAT, A. M., HAY, J. N. (c/o Hay, J. N., Univ. Birmingham, Dept. Chem., Birmingham B15, 2TT, England): Enthalpy and entropy of fusion and the equilibrium melting point of polyethylene oxide. *J. Chem. Soc. Faraday Trans. II.* 68 (1972) 656
- AGRAWAL, Y. K., TANDON, S. G. (Govt Sci. Coll., Dept. Chem., Rapus, India): Thermodynamic dissociation constants of N-phenyl-benzohydroxamic acids and benzohydroxamic acid. *Talanta* 19 (1972) 700
- AHRENS, T. J. (Calif. Tech., Seismol. Lab., Pasadena, Calif., 91109 USA): Shock melting and vaporization of metals. *J. Appl. Phys.* 43 (1972) 2443
- AKAIWA, H., KAWAMOTO, H., ABE, M. (Gunma Univ., Fac. Technol., Dept. Chem., Kiryu, Gunma, Japan): Thermal stability of the synergistic adduct of copper(II)- $\beta$ -diketonate. *J. Inorg. Nucl. Chem.* 34 (1972) 1763
- AKIYAMA, S. (Tokyo Univ. Agr. and Technol., Fac. Technol., Koganei, Tokyo, Japan): A dilatometric study of compatible polymer mixtures. *Bull. Chem. Soc. Jap.* 45 (1972) 1381
- ALARIO FRANCO, M. A., SING, K. S. W. (CSIC, Inst. Inorg. Chem., Madrid, Spain): The interconversion of orthorhombic chromium oxy-hydroxide and chromium dioxide. *J. Thermal Anal.* 4 (1972) 47
- AMELIN, A. V., GLAGOLEVA, YU. A., PODOL'SKII, A. F., POZNYAKOV, O. F., REGEL, V. R., SANFIROVA, T. P.: Comparison of activation energies for thermal degradation of polymers. *Sov. Phys. Solid State, Engl. Transl.* 13 (1971) 2279
- ANDREEV, G. A., IVANOV, I. A., KLIMOV, V. A.: Thermal defects in glasses. *Sov. Phys. Solid State, Engl. Transl.* 13 (1971) 2328
- ANHALT, J. P., WHITE, E. H. (Johns Hopkins Univ., Dept. Chem., Baltimore, Maryland, 21218 USA): Pyrolysis of 2-methylene-3,4,5,6 dibenzo-3',4,5,6 dibenzo-3',4'- (9, 10-phenantro) spirobicyclohexane to yield tetrabenzanthracene and ethylene. *Tetrahedron* 28 (1972) 2921
- ASMUSSEN, F., SPRINGER, J. (c/o Springer, J., Max Planck Gesellschaft, Fritz Haber Inst., Berlin 1): Ausbau des Gravimats für thermogravimetrische Anwendungen. *Messtechnik* 80 (1972) 73
- AŠPERGER, S., HEGEDIĆ, D., PAVLOVIĆ, D., BORČIĆ, S. (Univ. Zagreb, Fac. Pharm. and Biochem., Zagreb, Yugoslavia): Deuterium and sulfur-34 isotope effects in the thermal decomposition of some cyclic sulfones. *J. Org. Chem.* 37 (1972) 1745
- ATLANI, P., BIELLMANN, J. F., BRIERE, R., LEMAIRE, H., RASSAT, A. (Univ. Louis-Pasteur, Inst. Chim., Strasbourg 67, France): Mécanisme de la décomposition thermique du N,N'-diacétyltétrahydrodipyridyle-4,4'. *Tetrahedron* 28 (1972) 2827
- ATKINSON, J., MAC CALLUM, J. R. (St. Andrews Univ., Dept. Chem., St. Andrews,

- Scotland): Kinetics of thermal decomposition of polymers. II. *J. Polym. Sci. A-2*, 10 (1972) 811
- BABAYAN, H. G., TER-ARAKELIAN, K. A., GHAMBARIAN, S. G., MKRTCHIAN, R. T.: Physico-chemical studies of rare alkali metal fluoroaluminate systems. III. Melting diagram of  $\text{Li}_3\text{AlF}_6$ — $\text{Cs}_3\text{AlF}_6$  system. *Arm. Khim. Zh.* 25 (1972) 195 (In Russian)
- BAE, J. H. (Gulf Res. and Develop. Comp., Pittsburgh, Pa., 15230 USA): Determination of the kinetic parameters from differential thermal analysis. *J. Thermal Anal.* 4 (1972) 261
- BALEK, V., JULÁK, J. (Charles Univ., Dept. Radiochem., Prague 2, Czechoslovakia): Investigation of the thermal decomposition of some periodates by means of emanation thermal analysis (ETA) and DTA. *J. Thermal Anal.* 4 (1972) 293
- BARNES, P. A., STONE, F. S. (Leeds Polytechn., Dept. Chem., Calverley Street, Leeds, LS1 3HE, England): An investigation of the thermal decomposition of silver carbonate using thermoanalytical techniques. *Thermochim. Acta* 4 (1972) 105
- BATAILLE, P., VAN, B. T. (Univ. Montréal, École Polytech., Dept. Génie Chim., Montréal 250, Que., Canada): Mechanism of thermal degradation of poly(vinyl) chloride. *J. Polym. Sci. A-1*, 10 (1972) 1097
- BAZAROV, L. SH., KOSALS, J. A., SENINA, V. A. (Acad. Sci. USSR, Geol. and Geophys. Inst., Novosibirsk, USSR): Temperature conditions of the formation of zinwaldite-amazonite-albite-apogranites. *Dokl. Akad. Nauk SSSR* 203 (1972) 685 (In Russian)
- BEAUPIED, P., BLOURI, B. (CNRS, Ctr. Étud. and Rech. Chim. Org. Appl., Thiais 94, France): Sur le craquage des oléfines en vue de la préparation de diènes à longues chaînes. II. Pyrolyse de mélanges d'oléfines. *Bull. Soc. Chim. Fr. B* (1972) 1968
- BEKMURATOV, A., DOBRYNINA, T. A. (N. S. Kurnakov Gen. and Inorg. Chem. Inst., Moscow, USSR): Synthesis and thermal stability of  $4 \text{NaF} \cdot \text{H}_2\text{O}_2 \cdot \text{H}_2\text{O}$ . *Izv. Akad. Nauk SSSR, Ser. Khim.* (1972) 592 (In Russian)
- BELINSKAYA, R. V., AVRAMENKO, N. G., YAGUPOLSKII, I. M. (Acad. Sci. UkSSR, Org. Chem. Inst., Kiev, UkSSR): Pyrolysis of lithium salts of ortho (trifluoromethoxy)-benzenesulfonic acid and ortho(trifluoromethylthio)-benzenesulfonic acid. *Zh. Org. Khim.* 8 (1972) 1023 (In Russian)
- BELOSTOTZKII, V. F. (Acad. Sci. UkSSR, Metallophys. Inst., Kiev, UkSSR): Dilatation effects on heating of ultrasound radiated nickel. *Fiz. Metal. Metalloved.* 33 (1972) 651 (In Russian)
- BENIN, D. (Arizona State Univ., Dept. Phys., Tempe, Arizona, 85281 USA): Thermal conductivity of LiF and NaF and the Ziman limit. *Phys. Rev. B-Solid State* 5 (1972) 2344
- BERCHA, D. M., ZAYACHKOVSKII, M. P. (Uzhgorod State Univ., Uzhgorod, USSR): Electric and thermoelectric properties and band structure of BiSeI crystals. *Fiz. Tverd. Tela* 14 (1972) 897 (In Russian)
- BERGMAN, J. (Dept. Trade and Ind., Safety Min. Res. Estab., Red Hill, Broad Lane, Sheffield, S3 7HQ, England): A new method for evaluating the rank of coal from thermogravimetric curves: the identification of coal and soot isolated from pneumoconiotic lungs. *Fuel* 51 (1972) 99
- BERGMAN, I. (Dept. Trade and Ind., Safety Min. Res. Estab., Red Hill, Broad Lane, Sheffield, S3 7HQ England): Thermogravimetric studies on carbonaceous materials isolated from lung tissue by digestion in phosphoric acid: the catalysis of combustion by inorganic materials. *Fuel* 51 (1972) 116
- BERLIN, E., KLIMAN, P. G., PALLANSCH, M. J. (Dairy Products Lab., Washington, D.C., 20250 USA): Effect of sorbed water on the heat capacity of crystalline proteins. *Thermochim. Acta* 4 (1972) 11
- BERNANDER, L., OLOFSSON, G. (c/o Olofsson, G., Univ. Lund, Chem. Ctr., Thermochem. Lab., Lund, S-220 07 Sweden): A calorimetric and PMR study of the interaction between hydrogen chloride and dimethylacetamide, tetramethylurea and dimethylsulphoxide in 1,2-dichloroethane. *Tetrahedron* 28 (1972) 3251
- BERNARD, M. A., DECKER, N. (Univ. Caen, Unité Etud. Rech. Sci., Lab. Chim., Caen, France): Étude des glycinates métalliques. VII. Décomposition thermique, étude thermochimique et magnétique des gly-

- cinates de Ni et Co(II). *Bull. Soc. Chim. Fr. A* (1972) 1288
- BEVK, J., MASSALSKI, T. B. (Carnegie Mellon Univ., Ctr. Special Studies, Pittsburgh, Pa., 15213 USA): Low-temperature specific heats in  $\alpha$ -phase CuSn alloys. *Phys. Rev. B-Solid State* 5 (1972) 4678
- BEZERIANOS, N., WOOK, R. W. (Syracuse Univ., Mat. Sci., Syracuse, N. Y., 13210 USA): Thermal vaporization from the (111) CaF<sub>2</sub> face. *J. Appl. Phys.* 43 (1972) 1417
- BIEGEN, J. R., CZANDERNA, A. W. (Clarkson Coll. Technol., Dept. Phys., Inst. Colloid and Surface Sci., Potsdam, N. Y., USA): Analysis of thermal processes: the exponential integral. *J. Thermal Anal.* 4 (1972) 39
- BIRD, C. W., TWIBELL, J. D. (Queen Elizabeth Coll., Dept. Chem., London W8 7AH, England): A kinetic study of the thermal rearrangement of N-aryl-N'-cyanohydrazine derivatives. *Tetrahedron* 28 (1972) 2813
- BLAIR, G. R., CHAKLADER, A. C. D. (Univ. Brit. Columbia, Dept. Met., Vancouver 8, Canada): Koolinite-mullite series: firing vs. reactive hot-pressing. *J. Thermal Anal.* 4 (1972) 311
- BLANTER, M. E. (All Union Correspond. Machinery Inst., Moscow, USSR): Thermal stabilization of austenite. *Metalloved. Term. Obrab. Metal.* (1972) 60 (In Russian)
- BLINC, R., ŽEKŠ, B. (Univ. Ljubljana, Inst. J. Stefan, Ljubljana, Yugoslavia): On the specific heat anomaly in ferroelectric Rochelle salt. *Phys. Lett. A*, 39 A (1972) 167
- BLOCH, R., MARTY, R. A., MAYO, P. (Univ. Paris, Lab. Étud. Carbocycles, Orsay 91 France): Thermolyse éclair, (partie 9), Synthèse et propriétés du méthyl-1 pentalène. *Bull. Soc. Chim. Fr. B* (1972) 2031
- BLOUET, J., COURTEL, R. (Inst. Super Mat. et Construction Mécanique, St.-Ouen 93, France): Influence de l'oxydation thermique de l'aluminium sur le frottement lubrifié de l'acier contre l'aluminium. *Compt. Rend. Ser. C*, 274 (1972) 1903
- BODOR, E., JÓNÁS, K., WELTNER, M. (Univ. Chem. Ind., Inst. Gen. and Inorg. Chem., Veszprém, Hungary): Thermal decomposition of pyridine-borane. *Acta Chim. Acad. Sci. Hung.* 72 (1972) 111
- BOIKO, A. A., KODESS, B. N., SHEKHTMAN, V. SH. (Acad. Sci. USSR, Solid State Phys. Inst., Moscow, USSR): The anomalous curve for temperature dependence of the coefficients of thermal expansion of superconducting niobium and tantalum carbides. *Kristallografiya* 17 (1972) 683 (In Russian)
- BORODENKO, V. I. (Moscow Steel and Alloy Inst., Moscow, USSR): Thermal stability of SnO<sub>2</sub> thin films. *Zh. Fiz. Khim.* 46 (1972) 1062 (In Russian)
- BRANSKY, I., WIMMER, J. M. (Minist. Def., Tel Aviv, Israel): The high temperature defect structure of CoO. *J. Phys. Chem. Solids* 33 (1972) 801
- BRESLER, M. S., REDKO, N. A. (Acad. Sci. USSR, Semicond. Inst., Leningrad, USSR): Thermomagnetic phenomena in antimony in the phonon drag region. *Zh. Eksp. Teor. Fiz.* 62 (1972) 1867 (In Russian)
- BRODALE, G. E., FISHER, R. A., HORNUNG, E. W., GIAQUE, W. F. (Univ. California, Dept. Chem., Low Temp. Lab., Berkeley, Calif., 94720 USA): Magnetothermodynamics of antiferromagnetic, ferroelectric  $\beta$ -Gd<sub>2</sub>(MoO<sub>4</sub>)<sub>3</sub>. III. Heat capacity, entropy, magnetic moment of the electrically polarized form from 0.4 to 4.2 °K with fields to 90 kG along the *b* crystal axis. *J. Chem. Phys.* 56 (1972) 6118
- BROWDER, J. S., BALLARD, S. S. (Jacksonville Univ., Jacksonville, Florida, 32211 USA): Thermal expansion measurements on four optical materials from room temperature to 10 °K. *Appl. Opt.* 11 (1972) 841
- BUCCI, J. D., ROBERTSON, B. K., JAMES, W. J. (Univ. Missouri, Dept. Chem., Rolla, Missouri, 65401 USA): The precision determination of the lattice parameters and the coefficients of thermal expansion of BiFeO<sub>3</sub>. *J. Appl. Cryst.* 5 (1972) 187
- BURDIYAN, I. I., EMEL'YANENKO, O. V., SKRIPKIN, V. A.: Thermoelectric power of heavily doped p-type GaSb crystals. *Sov. Phys. Semicond., Engl. Transl.* 5 (1972) 1896
- BURMISTROVA, N. P., VOLOZHANINA, E. G., DUBKOVA, N. V. (V. I. Lenin Kazan State Univ., Kazan, KaSSR): The application of simultaneous recording of electrical conductivity and DTA in the study of binary and ternary salt systems. *J. Thermal Anal.* 4 (1972) 323
- BURMISTROVA, N. P., FITZEVA, R. G. (V. I.

- Lenin Kazan State Univ., Kazan, KaSSR): Investigation of exchange reactions between alkaline earth metal oxides and some transition metal halides. *J. Thermal Anal.* 4 (1972) 161
- CALVARIN, G., WEIGEL, D. (Univ. Paris, CSP, Lab. Chim. Phys. Solide, Châtenay 92, France): Détermination des tenseurs de dilatation thermique par diffraction des rayons X. I. Exposé de la méthode et contrôle de la précision. *J. Chim. Phys. Phys.-Chim. Biol.* 69 (1972) 480
- CARR, P. W., JORDAN, J. (c/o Jordan, J., Pennsylvania State Univ., Dept. Chem., University Park, Pa., 16802 USA): Perchlorate determination by thermometric enthalpy titration. *Anal. Chem.* 44 (1972) 1278
- CATHCART, J. V., PETERSEN, G. F. (Oak Ridge Natl. Lab., Oak Ridge, Tennessee, 31830 USA): The low-temperature oxidation of U-Nb and U-Nb-Zr alloys. *J. Nucl. Mater.* 43 (1972) 86
- CHANDRA, S., PRAKASH, J. (Univ. Gorakhpur, Dept. Phys., Gorakhpur, India): High temperature dielectric constants of rubidium halides. *Can. J. Phys.* 50 (1972) 1053
- CHEKHOVSKOI, V. YA., GERASINA, G. Z.: True heat capacity of copper and of 1Kh 18N9T steel in the 300–900 °K temperature range. *High Temp. USSR, Engl. Transl.* 9 (1971) 854
- CHERNOV, R. V., KOVZUN, I. G. (Acad. Sci. UkSSR, Gen. and Inorg. Chem. Inst., Kiev, UkSSR): Thermal dissociation of sodium fluorosilicate in the presence of mineral additions. *Ukranski Khim. Zh.* 38 (1972) 315 (In Russian)
- CHRISTENSEN, A. N., OLLIVIER, G. (Univ. Aarhus, Dept. Chem., Aarhus DK-8000, Denmark): Hydrothermal preparation and low temperature magnetic properties of Mn(OH)<sub>2</sub>. *Solid State Commun.* 10 (1972) 609
- CHRISTENSEN, J. J., KIMBALL, G. L., JOHNSTON, H. D., IZATT, R. M. (Brigham Young Univ., Dept. Chem. Engr. and Chem., Center Thermochem. Stud., Provo, Utah, 84601 USA): Calorimetric determination of the heat ionization of water at 10° and 40 °C. *Thermochim. Acta* 4 (1972) 141
- CHRISTENSEN, J. J., SMITH, D. E., SLADE, M. D., IZATT, R. M. (Brigham Young Univ., Dept. Chem. Engr. and Chem., Center Thermochem. Stud., Provo, Utah, 84601 USA): Thermodynamics of proton ionization in dilute aqueous solution. XVI.  $\Delta G^\circ$  (pK),  $\Delta H^\circ$ ,  $\Delta S^\circ$ , and  $\Delta C_p$  values for proton ionization from several cycloalkane carboxylic acids at 10, 25 and 40°. *Thermochim. Acta* 4 (1972) 17
- CHU, T. K.: Thermal conductivity of bone at low temperatures. *J. Appl. Phys.* 43 (1972) 3207
- ČIŽEK, A., DOLÁKOVÁ, V. (Czechoslovak Acad. Sci., Inst. Phys. Met., Brno, Czechoslovakia): A dilatometric study of platinum during repeated quenching. *Czech. J. Phys. B* 22 (1972) 302
- CLEAVELIN, C. R., PEDERSON, D. O., MARSHALL, B. J. (Texas Tech. Univ., Dept. Phys., Lubbock, Texas, 79409 USA): Elastic constants of RbF from 300 to 4.2 °K. *Phys. Rev. B-Solid State* 5 (1972) 3193
- CLIFTON, J. R. (NBS, Inst. Appl. Technol., Washington, D. C., 20234 USA): Thermal analysis of calcium sulfate dihydrate and supposed  $\alpha$  and  $\beta$  forms of calcium sulfate hemihydrates from 25 to 500 °C. *J. Nat. Bur. Stand. A*, 76 A (1972) 41
- CLOSS, G. L., HARRISON, A. M. (Univ. Chicago, Dept. Chem., Chicago, Ill., 60637 USA): Rearrangements, pyrolysis, and photolysis of trimethylcyclopropenyl azide. *J. Org. Chem.* 37 (1972) 1051
- COOMBES, C. J. (Imperial Coll. Sci. and Technol., Dept. Phys., London SW 7, England): The melting of small particles of lead and indium. *J. Phys. F. Metal Phys.* 2 (1972) 441
- CORDOBA, G., BROOKS, C. R. (Univ. Panama, Panama City, USA): The heat capacity of lead from 300 to 850 °K; conversion of  $C_p$  to  $C_v$  solid lead. *Phys. Status Solidi A-Appl. Res.* 11 (1972) 749
- COXON, J. M., GARLAND, R. P., HARTSHORN, M. P. (Univ. Canterbury, Dept. Chem., Christchurch, New Zealand): The pyrolysis of pinanes. VII. The pyrolysis of some hydroxypinane derivatives. *Aust. J. Chem.* 25 (1972) 947
- CRAIG, J. R. (Virginia Polytech. Inst. and State Univ., Dept. Geol. Sci., Blacksburg, Va., 24061 USA): Thermochemical ap-

- proximations for the silver-barium sulfides. *Thermochim. Acta* 4 (1972) 165
- DANAN, J., DE NOVION, C. H., DALLAPORTA, H. (CEN, Sect. Etud. Céramiques Base Plutonium, Fontenay-aux-Roses, France): Chaleur spécifique du mononitruure de thorium de 7 à 300 °K. *Solid State Commun.* 10 (1972) 775
- DARLEY, J. R., HOPPÉ, J. L. (Medway and Maidstone Coll. Technol., Chatham, Kent, England): Thermal decomposition of potassium bisoxalatoocuprate(II) dihydrate: an inorganic-analytical experiment. *J. Chem. Educ.* 49 (1972) 365
- DAS, S. K., GHOSH, A. (Univ. Michigan, Dept. Chem. and Met. Engn., Ann Arbor, Michigan, 48104 USA): Thermodynamic measurements in molten Pb-Sn alloys. *Met. Trans.* 3 (1972) 803
- DAVID, D. J. (Columbia Sci. Ind., P. O. Box 6190, Austin, Texas, 78762 USA): The effect of emissivity on heat transfer. *Thermochim. Acta* 4 (1972) 41
- DE BUSSETTI, S. G., TSHAPEK, M., HELMY, A. K.: Calorimetric determination of the point of zero charge. *J. Electroanal. Chem. Interfac.* 36 (1972) 507
- DE CANDIA, F., AMELINO, L., PRICE, C. (CNR, Lab. Recherche Technol. Polimeri et Reol., Naples, Italy): Elastic and thermoelastic behavior of *cis*-polybutadiene cross-linked in the swollen state. *J. Polym. Sci. A-2*, 10 (1972) 975
- DELISI, C., SHAMOS, M. H. (Yale Univ., Dept. Chem., New Haven, Connecticut, 06520 USA): Hydration-dependent enthalpy changes in the Helix-Coil transition in Tendon. *J. Polym. Sci. A-2*, 10 (1972) 673
- DESHPANDE, P. B., COUPER, J. R. (Howard Univ., Chem. Eng., Washington, D. C., 20001 USA): Thermal conductivity of two-phase systems. *J. Heat Transfer.* 94 (1972) 249
- DEVLIN, J. F., SAWATZKY, G. A. (Univ. Groningen, Solid State Phys. Lab., Groningen, Netherlands): Transition-temperature dependences for diluted magnetic systems. *Phys. Rev. B-Solid State* 6 (1972) 268
- DIAMOND, J. M. (Polytech. Inst. Brooklyn, Brooklyn, N.Y., 11201 USA): Low-resistance thermometry. *Proc. Inst. Electr. Eng.* 119 (1972) 387
- DIKHTER, I. YA., LEBEDEV, S. V.: Electrical-explosion study of certain thermophysical properties of tungsten and molybdenum near the melting point. *High Temp. USSR, Engl. Transl.* 9 (1971) 845
- DILTS, J. A., ASHBY, E. C. (Univ. North Carolina, Dept. Chem., Greensboro, N. Carolina, 27412 USA): A study of the thermal decomposition of complex metal hydrides. *Inorg. Chem.* 11 (1972) 1230
- DRICKAMER, H. G., FRANK, C. W., SLICHTER, C. P. (Univ. Illinois, Sch. Chem. Sci., Urbana, Illinois, 61801 USA): Optical versus thermal transitions in solids at high pressure. *Proc. Nat. Acad. Sci. USA* 69 (1972) 933
- DUBEY, K. S., VERMA, G. S. (Banaras Hindu Univ., Phys. Dept., Varanasi, India): Lattice thermal conductivity of p-type GaSb in the temperature range 2 - 20 °K. *Phys. Rev. B-Solid State* 5 (1972) 2215
- DURAND, R., AILLOUD, P., LANGERON, J. P. (Lab. Rech. Brignoud, Brignoud 38, France): Melting in vacuum of high melting metals. *Rev. Int. Hautes Temp. Refract.* 9 (1972) 77
- DUVAL, C. (CNRS, Paris, France): L'évolution des méthodes thermoanalytiques depuis Le Chatelier jusqu'au 3<sup>e</sup> Congrès de l'ICTA; nomenclature actuelle. 54 (1972) 132
- DVORNIKOVA, K. V., PLATONOV, V. E., PUSHKINA, L. N., SOKOLOV, S. V., TATAUROV, G. P., YAKOBSON, G. G. (Acad. Sci. USSR, Org. Chem. Inst., Novosibirsk USSR): Thermolytic conversions of organopoly-fluorine compounds. 10. Formation of 1-trifluoro methyl heptafluoro cyclopentene during thermolysis of hexahalobenzenes in the presence of alkali metal halides. *Zh. Org. Khim.* 8 (1972) 1042 (In Russian)
- EADY, C. R., JOHNSON, B. F. G., LEWIS, J. (Univ. Cambridge, Chem. Lab., Cambridge 2, England): Products from the pyrolysis of Ru<sub>3</sub>(CO)<sub>12</sub> and Os<sub>3</sub>(CO)<sub>12</sub>. *J. Organometal. Chem.* 37 (1972) C 39
- EBERSOLE, J. F., BALLARD, S. S., BROWDER, J. S. (Itek Corp., Optical Syst. Div., Lexington, Mass., 02173 USA): Apparatus for measuring the thermal expansion

- of optical materials from 30 °C to 250 °C. *Appl. Opt.* 11 (1972) 844
- EIERMANN, K., HOFFMANN, R., KNAPPE, W. (c/o Hoffmann, R., Deutsches Kunststoff-Inst., Darmstadt, GFR): Adiabatisches Kalorimeter zur Messung der spezifischen Wärme und der Enthalpie von Polymeren im Temperaturbereich von -180 °C bis +270 °C. *Kolloid. Z. Z. Polymere* 250 (1972) 111
- ERÄ, V. A., LINDBERG, J. J. (Univ. Helsinki, Dept. Wood and Polymer. Chem., Helsinki, Finland): Differential scanning calorimetry of chlorinated polyethylenes. *J. Polym. Sci. A-2*, 10 (1972) 397
- ESCOUBES, M., QUINSON, J. F., GIELLY, J., MURAT, M. (Univ. Claude-Bernard, 69-Villeurbanne, France): Interaction de la vapeur d'eau avec quelques minéraux argileux: étude par couplage thermogravimétrie-calorimétrie. *Bull. Soc. Chim. Fr. A* (1972) 1689
- ETEMAND, S., GARITO, A. F., HEEGER, A. J. (Univ. Pennsylvania, Dept. Phys., Philadelphia, Pa., 19104 USA): Low-temperature specific heat of some TCNQ compounds. *Phys. Lett. A*, 40A (1972) 45
- ÉTOURNEAU, J., MERCURIO, J.-P., NASLAIN, R., HAGENMULLER, P. (Univ. Bordeaux, Serv. Chim. Minérale Struct., CNRS, Talence 33, France): Étude comparative de la stabilité thermique des tétraborures de terres rares. *Compt. Rend. Ser. C* 274 (1972) 1688
- FACHINETTI, G., FLORIANI, C. (c/o Floriani, C., Univ. Pisa, Ist. Chim. Gen. Inorg., Pisa 56100, Italy): Thermal decomposition and carbonylation of bis(cyclopentadienyl)-titanium(IV) and bis(cyclopentadienyl)-zirconium(IV) derivatives. *J. Chem. Soc. Chem. Commun.* (1972) 654
- FEDOROV, V. B., ALEINIKOV, I. N.: Thermal conductivity of zirconium carbide at high temperatures (2100 - 3400 °K). *High Temp. USSR, Engl. Transl.* 9 (1971) 984
- FEDOROV, P. P., FEDOROV, P. I. (M. V. Lomonosov Fine Chem. Technol. Inst., Moscow, USSR): Determination of Ga<sub>3</sub>Cl<sub>7</sub> thermodynamic properties. *Zh. Neorg. Khim.* 17 (1972) 875 (In Russian)
- FEDER, R., LIGHT, T. B. (IBM Corp., Thomas J. Watson Res. Ctr., Yorktown Heights N. Y., 10598 USA): A determination of the thermal expansion of pure Ge and a measurement of the differential thermal expansion of Ge-GaAs thin-layer couple. *J. Appl. Phys.* 43 (1972) 3114
- FEDOROV, V. A., ISAEV, I. D., ROBOV, A. M., VERTIPRAKHOV, A. V., MIRONOV, V. E. (Siberian Technol. Inst., Inorg. Chem. Dept., Novosibirsk, USSR): Temperature effect on the formation of chloride, thiocyanate and chloride-thiocyanate complexes of thallium(I). *Zh. Neorg. Khim.* 17 (1972) 951 (In Russian)
- FINOGENON, A. D. (Acad. Sci. USSR, Semicond. Inst., Leningrad, USSR): Standard enthalpies of formation and the enthalpies of atomization of lanthanum, cerium, praseodymium and neodymium sulfides. *Zh. Fiz. Khim.* 46 (1972) 1049 (In Russian)
- FONTAN, F., PERMINGEAT, F. (Univ. Paul-Sabatier, CNRS, Lab. Minéral, Toulouse 31, France): Transformation par voie thermique, de la graftonite en alluaudite. *Compt. Rend. Ser. D* 274 (1972) 2613
- FORTUNA, I. P., NASTAS, V. A. (Kishinev Med. Inst., Kishinev, MoSSR): Differential-thermal and chemical investigation of clayish rocks. *Ukr. Khim. Zh.* 38 (1972) 286 (In Russian)
- FROLOV, A. A., KRENTSIS, R. P., SIDORENKO, F. A., GEL'D, P. V.: Some physical properties of Co<sub>2</sub>Si and Ni<sub>2</sub>Si in the temperature range from 10 to 350 °K. *Izv. Vyssh. Ucheb. Zaved. Fiz.* (1972) 125 (In Russian)
- FURUKAWA, N., HARADA, K., OAE, S. (Osaka City Univ., Fac. Engn., Sugimotocho, Osaka, Japan): The facile thermal racemization of optically active aryl methyl sulfilimines. *Tetrahedron Lett.* (1972) 1377
- FUZHENKOVA, A. V., ZINKOVSKII, A. F., ARBUZOV, B. A. (A. M. Butlerov Chem. Inst., Kazan, USSR): Thermography of trialkyl phosphite reactions with tetracyclone. *Zh. Obshch. Khim.* 42 (1972) 491 (In Russian)
- GAJEWSKI, J. J., BURKA, L. T. (Indiana Univ., Dept. Chem., Bloomington, Indiana, 47401 USA): Alkyl shifts in thermolyses. IV. Carbethoxyspiropentane-carbethoxymethylenecyclobutane isomerization. Evidence for orbital symmetry control and an intermediate. *J. Amer. Chem. Soc.* 94 (1972) 2554

- GALYUK, O. S., KARYAKINA, I. A., BATURIN, S. M., KUKUSHKIN, V. I. (Acad. Sci. USSR, Chem. Phys. Inst., Moscow B-334, USSR): Low-temperature microcalorimeter. *Zh. Fiz. Khim.* 46 (1972) 1342 (In Russian)
- GAULTIER, M., PANNETIER, G. (Univ. Paris, CNRS, Lab. Cinétique Chim., Paris 5, France): Propriétés thermiques et structurales des séléniates, chromates et molybdates de thallium(I). *Rev. Chim. Minér.* 9 (1972) 271
- GARUIE, R. C., NICHOLSON, P. S. (McMaster Univ., Dept. Met. and Mat. Sci., Hamilton, Ont., Canada): Structure and thermo-mechanical properties of partially stabilized zirconia in the CaO-ZrO<sub>2</sub> system. *J. Am. Ceram. Soc.* 55 (1972) 152
- GASSMAN, P. G., CAMPBELL, G. A. (Ohio State Univ., Dept. Chem., Columbus, Ohio, 43210 USA): Thermal rearrangement of *N*-chloroanilines. Evidence for the intermediacy of nitrenium ions. *J. Amer. Chem. Soc.* 94 (1972) 3891
- GELLER, S., OWENS, B. B. (Univ. Colorado, Dept. Elect. Engr., Boulder, Colorado, 80302 USA): Silver ion site-distribution, structure and conductivity of the solid electrolyte pyridinium hexa iodopentaargentate (C<sub>5</sub>H<sub>5</sub>NH)Ag<sub>5</sub>I<sub>6</sub>, between -30 and 125 °C. *J. Phys. Chem. Solids* 33 (1972) 1241
- GERGELY, A., MOJZES, J., KASSAI-BAZSA, Zs. (L. Kossuth Univ., Inst. Inorg. and Anal. Chem., Debrecen 10, Hungary): Equilibrium relations of alpha-aminoacid complexes of transition metal ions. V. Stability constants and formation enthalpy and entropy changes of complexes of serine, threonine and alpha aminobutyric acid. *J. Inorg. Nucl. Chem.* 34 (1972) 1277
- GIBSON, E. K. JR., JOHNSON, S. M. (NASA Manned Spacecraft Center, Houston, Texas, 77058 USA): Thermogravimetric-quadrupole mass-spectrometric analysis of geochemical samples. *Thermochim. Acta* 4 (1972) 49
- GILLIBRAND, M. I., HALLIWELL, B. (Elect. Power Storage Ltd., Manchester, Lancs., England): The lead-oxygen system. I. Thermal decomposition of lead dioxide. *J. Inorg. Nucl. Chem.* 34 (1972) 1143
- GLAUNSINGER, W. S., ZOLOTOV, S., SIENKO, M. J. (Cornell Univ., Baker Lab. Chem., Ithaca, N.Y., 14850 USA): Magnetic susceptibility of tetraamminelithium(zero) in the range 1.5-194 °K. *J. Chem. Phys.* 56 (1972) 4756
- GLAZER, A. M., MEGAW, H. D. (Univ. Cambridge, Cavendish Lab., Cambridge, England): The structure of sodium niobate (T<sub>2</sub>) at 600 °C, and the cubic-tetragonal transition in relation to soft-phonon modes. *Phil. Mag.* 25 (1972) 1119
- GMELIN, E., VIEIRA, S. (Max Planck Inst. Festkörperforsch., Stuttgart 1, GFR): Thermal properties of alkaline-earth oxides. III. Analysis of anharmonic effects. *Z. Naturforsch.* 27 a (1972) 605
- GOGADZE, N. G., IPPOLITOV, E. G., ZHIGARNOVSKII, B. M. V. (N. S. Kurnakov Gen. and Inorg. Chem. Inst., Moscow, USSR): Condensed phase diagram of the CaF<sub>2</sub>-GdF<sub>3</sub> system above 800 °C. *Zh. Neorg. Khim.* 17 (1972) 1152 (In Russian)
- GOLDANSKII, V. I., DZANTIEV, B. G., KAPLAN, A. M., POZYAKOVA, A. V., SHVEDCHIKOV, A. P.: Calorimetry of nitrosyl chloride addition to cyclohexene and isobutylene in condensed phase. *Zh. Obshch. Khim.* 42 (1972) 1006 (In Russian)
- GOMM, P. S., UNDERHILL, A. E., OLIVER, R. W. A. (Univ. Coll. N. Wales, Dept. Chem., Bangor, Caerns, England): Thermal decomposition of imidazole complexes of the type MIm<sub>6</sub>X<sub>2</sub> (where M = Co or Ni; X = Cl, Br or I; Im = C<sub>3</sub>H<sub>4</sub>N<sub>2</sub> and M = Co; X = NO<sub>2</sub>). *J. Inorg. Nucl. Chem.* 34 (1972) 1879
- GOOD, W. D. (U. S. Dept. Interior, Bur. Mines, Bartlesville, Oklahoma, 74003 USA): Enthalpies of combustion of 18 organic sulfur compounds related to petroleum. *J. Chem. Eng. Data* 17 (1972) 158
- GOPAL, E. S. R., GAMBHIR, R. D., GOVINDARJAN, K., VISWANATHAN, B. (Indian Inst. Sci., Dept. Phys., Bangalore 12, India): A vacuum adiabatic calorimeter for specific heat studies in liquid mixtures especially in their critical region. *J. Ind. Inst. Sci.* 53 (1971) 355
- GORBATCHEV, V. M., LONGVINENKO, V. A. (Siberian Dept. Acad. Sci., Inst. Inorg. Chem., Novosibirsk-90, USSR): The correlation between isothermal and nonisothermal kinetics in thermogravimetry. *J. Thermal Anal.* 4 (1972) 475

- GORELKIN, O. S., DUBROVIN, A. S., KOLESNIKOVA, O. D., CHIRKOV, N. A. (Met. Res. Inst., Chelyabinsk, USSR): Determining heats of formation for intermetallides in an isothermic calorimeter by the sintering method. *Zh. Fiz. Khim.* 46 (1972) 754 (In Russian)
- GORODETSKY, G., HORNREICH, R. M., SHARON, B. (Univ. Negev, Dept. Phys., Beersheva, Israel): Magnetolectric and specific heat studies of  $\text{GeMnO}_3$ . *Phys. Lett. A*, 39 A (1972) 155
- GOSSELAIN, P. A., JANNES, G. A., SIMOENS, G. S., SLEGERS, J., WARZÉE, D. (IIF-IMC, Lab. Chim. Phys., Brussels 1070, Belgium): Mesure de processus à l'interface gaz-solide par une technique thermique différentielle. *Bull. Soc. Chim. Belg.* 81 (1972) 177
- GOSSNIK, R. G., STEVELS, J. M. (N. V. Philips Gloeilampenfabriken, Forsch. Lab. Eindhoven, Netherlands): Über den Dissoziationszustand von geschmolzenem Natriumdioxidwolframat ( $\text{Na}_2\text{W}_2\text{O}_7$ ). *Z. Anorg. Allg. Chem.* 388 (1972) 282
- GRAVES, B. B. (Eastern Michigan Univ., Dept. Chem., Ypsilanti, Michigan, 48197 USA): Differential voltammetric scanning thermometry of tenth formal formaldehyde solution in formal perchloric acid. *Anal. Chem.* 44 (1972) 993
- GREIG, G., BRUNCK, T. K., SCHROEDER, P. A. (Univ. Leeds, Dept. Inorg. and Struct. Chem., Leeds 2, Yorks., England): The thermoelectric power of palladium and platinum alloys. *Phil. Mag.* 25 (1972) 1009
- GRIBOV, B. G., KOZYRKIN, B. I., KRIVOSPITSKII, A. D., CHIRKIN, G. K.: Thermal decomposition of bisarene compounds of chromium as studied by the ESR method. *Dokl. Akad. Nauk SSSR* 204 (1972) 96 (In Russian)
- GRINDLEY, T., LIND, J. E. (Stanford Univ., Dept. Chem. Engr., Stanford, Calif., 94305 USA): Thermodynamics of molten salts. *J. Chem. Phys.* 56 (1972) 3602
- GUARINI, G. T., SPINICCI, R. (Univ. Florence, Inst. Phys. Chem., Firenze 50121, Italy): DSC study of the kinetics of the thermal dehydration of  $\text{BaCl}_2 \cdot 2 \text{H}_2\text{O}$  and  $\text{BaCl}_2 \cdot \text{H}_2\text{O}$ . *J. Thermal. Anal.* 4 (1972) 435
- GUBSER, D. U., TAYLOR, P. C. (USN, Res. Lab., Washington, D. C., 20390 USA): Low temperature magnetic susceptibility of vitreous  $\text{As}_2\text{Se}_3$ . *Phys. Lett. A*, 40 A (1972) 3
- GUNN, S. R. (Univ. California, Lawrence Radiat. Lab., Livermore, Calif., 94550 USA): The enthalpies of formation of arsine and biarsine. *Inorg. Chem.* 11 (1972) 796
- GUPTA, T. K. (Westinghouse Res. Labs., Pittsburgh, Pa., 15235 USA): Strength degradation and crack propagation in thermally shocked  $\text{Al}_2\text{O}_3$ . *J. Amer. Ceram. Soc.* 55 (1972) 249
- GUREVICH, M. Z., SAS, T. M., LEBEDEVA, N. E., ZELENTOV, V. V., STEPIN, B. D. (All Union Inst. Chem. Reagents, Moscow, USSR): Thermal stability of acetylacetonates of transition elements. *Zh. Neorg. Khim.* 17 (1972) 1073 (In Russian)
- HAIT, D. K., SEN, B. K., BANDYOPADHYAY, P. (c/o Bandyopadhyay, P., Univ. Calcutta, Coll. Sci., Chem. Dept., Calcutta 9, India): Thermal study on some nitrosyl complexes of rhenium. *Z. Anorg. Allg. Chem.* 388 (1972) 189
- HALÁSZ, A., POLYÁK, K. (Chem. Ind. Veszprém, Inst. Anal. Chem., Veszprém, Hungary): Thermometrische Schnellbestimmung des Chroms. *J. Thermal Anal.* 4 (1972) 147
- HALVORSON, J. J., WIMBER, R. T. (Montana State Univ., Dept. Aerosp. and Mech. Engr., Bozeman, Montana, 59715 USA): Thermal expansion of iridium at high temperatures. *J. Appl. Phys.* 43 (1972) 2519
- HAMILTON, W. S., WITT, L. C. (Texas Womans Univ., Dept. Chem., Denton, Texas, 76204 USA): Heat of combustion of terephthalamide. *J. Chem. Eng. Data* 17 (1972) 138
- HAYAKAWA, M., COHEN, J. B., REED, T. B. (Northwestern Univ., Technol. Inst., Evanston, Ill., 60201 USA): Measurement of the lattice parameter of Wustite at high temperatures. *J. Am. Ceram. Soc.* 55 (1972) 160
- HEGEDÜS, J. A., BAKCSY, G., MAJOR-CHUDIK, L. (Egyesült Izzó, Budapest 4, Hungary): Thermoanalytical and X-ray investigation of the range  $\text{SbO}_{1.5-2}$  of the system Sb-O. *Magy. Kém. Foly.* 78 (1972) 193 (In Hungarian)



- HIGGS, D. A., MANLEY, T. R. (Newcastle Polytech., Mat. Sci. Dept., Newcastle NE1 8ST, England): A thermoanalytical determination of the activation energy of the decomposition of azodiisobutyronitrile. *J. Appl. Polym. Sci.* 16 (1972) 1039
- HIRSCH, J. A., STERNER, D. E. (Seton Hall Univ., Dept. Chem., S. Orange, N. J., 07079 USA): The thermal decarboxylation of 2-furoic acids. *J. Org. Chem.* 37 (1972) 1678
- HIRSCHWALD, W., STOLZE, F. (Freie Univ. Berlin, Inst. Phys. Chem., Berlin-Dahlem): Zur Kinetik der thermischen Dissoziation von Zinkoxid. *Z. Phys. Chem. Frankfurt* 77 (1972) 21
- HOLSTE, J. C., CETAS, T. C., SWENSON, C. A. (Iowa State Univ., Inst. Atom. Res., Ames, Iowa, 50010 USA): Effects of temperature scale differences on the analysis of heat capacity data: The specific heat of copper from 1 to 30 °K. *Rev. Sci. Instr.* 43 (1972) 670
- HOUSE, J. E., FARRAN, R. (Illinois State Univ., Dept. Chem., Normal, Illinois, 61761 USA): Preparation and thermal studies on complexes of pyrazines with palladium(II). *J. Inorg. Nucl. Chem.* 34 (1972) 1466
- HOYT, E. B., REINEBERG, E. J., GOODMAN, P., VAUGHAN, P., GEORGIAN, V. (Nord Arizona Univ., Flagstaff, Arizona, 86001 USA): The photolysis and pyrolysis of bis-2,3-diphenylcyclopropene anhydrides: benzvalene. *Tetrahedron Lett.* (1972) 1579
- HU, A. T., SINKE, G. C., MÅNSSON, M., RINGNÉR, B. (Dow Chem. Co., Thermo Res. Lab., Midland, Mich., 48640 USA): Test substances for bomb combustion calorimetry. *p*-chlorobenzoic acid. *J. Chem. Thermodyn.* 4 (1972) 283
- HUTCHENS, R. D., RAO, V. U. S., GREEDAN, J. E., CRAIG, R. S. (Univ. Pittsburgh, Dept. Chem., Pittsburgh, Pa., 15213 USA): Electronic specific heat of  $Ce_xLa_{1-x}Pd_3$  ternary alloys. *J. Phys. Soc. Jap.* 32 (1972) 451
- IDA, K. (Nippon Elect. Co., Ltd., IC Div., Shimonobe, Kawasaki, Japan): The effects of heat treatment on the interface characteristics in the Si-Al<sub>2</sub>O<sub>3</sub> and Si-SiO<sub>2</sub>-Al<sub>2</sub>O<sub>3</sub> systems. *Jap. J. Appl. Phys.* 11 (1972) 238
- IKUSHIMA, K., TANAKA, T., NOMOTO, G. (Mitsubishi Chem. Ind. Ltd., Cent. Res. Lab., 290 Hisamotokamoi-cho, Kawasaki, Kanagawa, Japan): Effects of pre-melting conditions on isothermal crystallization of polypropylene. *Polym. Chem.* 29 (1972) 186 (In Japanese)
- IL'CHENKO, L. N., STREL'NIKOVA, I. A., MIRGALOVSKAYA, M. S. (A. A. Baikov Met. Inst., Moscow, USSR): Thermoelectric properties of GaSb at 300 °K. *Izv. Akad. Nauk. SSSR, Neorg. Mater.* 8 (1972) 798 (In Russian)
- ISHII, T., KAMADA, K., FURUICHI, R. (Univ. Hokkaido, Fac. Engn., Dept. Appl. Chem., Sapporo, Japan): Effect of addition of potassium chlorate on thermal decomposition of calcium oxalate monohydrate. *Kogyo Kagaku Zasshi* 74 (1971) 854 (In Japanese)
- ISAKOVA, R. A., UGRYUMOVA, L. E., AMOSOVA, K. S., POTANINA, N. A., SAPUKOV, I. A.: Behavior of rhenium disulfide at heating in vacuum. *Zh. Neorg. Khim.* 17 (1972) 594 (In Russian)
- ISHIKAWA, M., TOTH, L. E. (Ohio Univ., Dept. Phys., Athens, Ohio, 45701 USA): Specific heats and magnetic susceptibilities of vanadium carbides VC<sub>x</sub>. *Monatsh. Chem.* 103 (1972) 492 (In German)
- ISIDA, T., KOZIMA, S., FUJIMORI, S., SISIDO, K. (Kyoto Univ., Fac. Engn., Sakyo-ku, Kyoto, Japan): Preparation and thermal decomposition of 1,4,5- and 1,3,5-trimethyltetrazolium iodides. *Bull. Chem. Soc. Jap.* 45 (1972) 1471
- JAIN, S. K., PRASAD, P. M., JENA, P. K. (Banaras Hindu Univ., Inst. Technol., Dept. Met., Varanasi 5, India): Kinetics of the thermal dissociation of Co<sub>3</sub>S<sub>3</sub> under reduced pressure. *Metal. Trans.* 3 (1972) 1575
- JAURA, K. L., SHARMA, K. K. (Panjab Univ., Chem. Dept., Chandigarh 14, India): Thermogravimetric analysis of some 1 : 4 adducts of organotin halides. *J. Indian Chem. Soc.* 49 (1972) 419
- JÁNOŠ, Š., FEHER, A. (Šafarik Univ., Fac. Sci., Dept. Exptl. Phys., Košice, Czechoslovakia): Thermal conductivity of thulium in the temperature range from 0.5 to 4.5 K. *Phys. Status Solidi* 10 (1972) K 153

- JEANJEAN, R., DUBOIS, J., FETIVEAU, Y., RIVIÈRE, R. (Inst. Natl. Sci. Appl., Serv. Crystallogr., 69-Villeurbanne, France): Mesures enthalpiques sur la transformation allotropique des alliages de cobalt. *Mém. Sci. Rev. Nat.* 69 (1972) 165
- JEHAN, K., QAISER, M. A., KHAN, A. H. (P. C. S. I. R. Labs., Jamrud Road, Peshawar, Pakistan): Quantitative estimation of calcite in limesbones by differential thermal analysis. *J. Thermal Anal.* 4 (1972) 299
- JOHNSON, D. W., GALLAGHER, P. K. (Bell Tel. Labs. Inc., Murray Hill, N. J., 07974 USA): Kinetics of the thermal decomposition of  $\text{BeSO}_4$ . *J. Amer. Ceram. Soc.* 55 (1972) 232
- JÓNA, E., JESENÁK, V., ŠRAMKO, T., GAŽO, J. (Slovak Techn. Univ., Dept. Inorg. Chem., Bratislava, Czechoslovakia): Heterogeneous reactions of solid nickel(II) complexes. V. The thermal decomposition of complexes of the type  $\text{Ni}(\text{NCS})_2\text{L}_2$ . C: Kinetic study of pseudooctahedral complexes. *J. Thermal Anal.* 5 (1973) 57
- JÓNA, E., ŠRAMKO, T., AMROVIČ, P., GAŽO, J. (Slovak Techn. Univ., Dept. Inorg. Chem., Bratislava, Czechoslovakia): Heterogeneous reactions of solid nickel(II) complexes. IV. Thermal decomposition of compounds of the type  $\text{Ni}(\text{NCS})_2\text{L}_2$ . B: Thermochemical properties. *J. Thermal Anal.* 4 (1972) 153
- JUDD, M. D., POPE, M. I. (Portsmouth Polytech., Chem. Dept., Portsmouth, England): Energy of activation for the decomposition of the alkaline-earth carbonates from thermogravimetric data. *J. Thermal Anal.* 4 (1972) 31
- KADIČ, K., WANĚK, W. (Res. Inst. Inorg. Chem., Ústí and Labem, Czechoslovakia): Über die thermische Polykondensation von Kaliummono- und diamidophosphat. *Collect. Czech. Chem. Commun.* 37 (1972) 735
- KAGEMOTO, A., BABA, Y. (Osaka Inst. Technol., Dept. Gen. Educ., Omiya-cho, Asahi-ku, Osaka, Japan): On the study of liquid-liquid phase equilibrium by differential thermal method. *High Polym. Chem.* 28 (1971) 784 (In Japanese)
- KAMBE, H., HORIE, K., SUZUKI, T. (Univ. Tokyo, Inst. Space and Aero. Sci., Komaba, Meguro-ku, Tokyo, Japan): Investigations of solid phase transitions of low molecular organic compounds by differential scanning calorimetry. *J. Thermal Anal.* 4 (1972) 461
- KAMEL, A. H., ABDALLAH, A. M. (Minist. Ind., Chem. Dept., Cairo, United Arab Rep.): The thermal decomposition of ferrous sulphate heptahydrate. II. Decomposition to ferric oxide. *J. Appl. Chem. Biotechnol.* 22 (1972) 599
- KAMEL, A. H., SAWIRES, Z., KHALIFA, H., SALEH, S. A., ABDALLAH, A. M. (Minist. Ind., Chem. Dept., Cairo, United Arab Rep.): The thermal decomposition of ferrous sulphate heptahydrate. I. Dehydration and oxidation. *J. Appl. Chem. Biotechnol.* 22 (1972) 591
- KARAMARGIN, M. C., REYNOLDS, C. A., LIPSCHULTZ, F. P., KLEMENS, P. G. (USN, Underwater Syst. Ctr., New London, Connecticut, 06320 USA): Thermal and electrical conductivity of pure tin from 4.5 to 77°K. *Phys. Rev. B-Solid State* 5 (1972) 2856
- KARWOWSKI, Ł., KOSŁOWSKI, A. (Univ. Warsaw, Inst. Geochem., Mineral. and Petrol., Warsaw, Poland): Thermogravimetric method of determination of decrepitation temperature. *Bull. Acad. Pol. Sci. Terre* 20 (1972) 11
- KATZ, A., SASS, E., STARINSKY, A., HOLLAND, H. D. (Yale Univ., Dept. Geol. and Geophys., New Haven, Connecticut, 06520 USA): Strontium behaviour in the aragonite-calcite transformation: an experimental study at 40–98°C. *Geochim. Cosmochim. Acta* 36 (1972) 481
- KIM, H. G., MANDELKERN, L. (Esso Res. and Engn. Co., Linden, N. J., 07036 USA): Multiple melting transition in natural rubber. *J. Polym. Sci. A-2*, 10 (1972) 1125
- KEENAN, A. G., SIEGMUND, R. F. (Univ. Miami, Dept. Chem., Coral Gables, Florida, 33124 USA): Kinetics of the low temperature thermal decomposition of ammonium perchlorate and its catalysis by copper ion. *J. Solid State Chem.* 4 (1972) 362
- KLEVTSOV, P. V., PAVLIUK, A. A. (Acad. Sci. USSR, Inorg. Chem. Inst., Novosibirsk, USSR): Thermal decomposition of potassium-yttrium molybdate melt.

- Dokl. Akad. Nauk SSSR* 203 (1972) 813 (In Russian)
- KLEVTSOVA, R. F., VINOKUROV, V. A., KLEVTSOV, P. V. (Acad. Sci. USSR, Inorg. Chem. Inst., Novosibirsk, USSR): Crystal structure and thermal stability of CsPr-(MoO<sub>4</sub>)<sub>2</sub>. *Kristallografiya* 17 (1972) 284 (In Russian)
- KNYAZEVA, R. N., ZHURALLEVA, G. S. (A. M. Gorkii State Univ., Sverdlovsk, USSR): Thermal decomposition of amorphous strontium tetrahydroorthotellurate. *Zh. Neorg. Khim.* 17 (1972) 911 (In Russian)
- KOBAYASHI, J., SATO, Y., SCHMID, H. (Waseda Univ., Dept. Appl. Phys., Nishi-Okubo, Shinjuku-ku, Tokyo, Japan): X-ray study on phase transitions of ferroelectric iron iodine boracite Fe<sub>3</sub>B<sub>7</sub>O<sub>13</sub>I at low temperatures. *Phys. Status Solidi-A* 10 (1972) 259
- KOHN, S. (Off. Natl. Étud. et Rech. Aérosp., Châtillon 92, France): Polymères thermostables. *Rev. Int. Hautes Temp. Refract.* 9 (1972) 31
- KOENIG, T., HOEBLER, J. A., MABEY, W. R. (Univ. Oregon, Dept. Chem., Eugene, Oregon, 97403 USA): Thermal decomposition of N-nitrosohydroxylamines. V. Denitrosation and N-tert-butoxyamido radicals. *J. Amer. Chem. Soc.* 94 (1972) 2514
- KOLTA, G. A., HEWAIDY, I. F., FELIX, N. S. (Natl. Res. Centre, Dokki, Cairo, United Arab Rep.): Reactions between sodium sulfate and vanadium pentoxide. *Thermochim. Acta* 4 (1972) 151
- KOLESOV, V. P., SLAVUTSKAYA, G. M., STELNIKOVA, L. N. (M. V. Lomonosov State Univ., Chem. Fac., Moscow, USSR): Standard enthalpy of formation for 1,1,1-trifluoro-3,3-dichloro propane. *Zh. Fiz. Khim.* 46 (1972) 806 (In Russian)
- KONYUKHOVA, N. E., KALINICHENKO, I. I., PURTOV, A. I. (Ural Polytech. Inst., Gen. Chem. Dept., Sverdlovsk, USSR): Thermal decomposition of a mixture of nickel nitrate and chromium anhydride. *Zh. Neorg. Khim.* 17 (1972) 613 (In Russian)
- KOPP, W. U. (F.A.K. and B. Grubbs Instr., Düsseldorf 4, GFR): Thermische und magnetothermische Meßverfahren. *Meßtechnik* 80 (1972) 81
- KOPVILLEN, U. KH., RIZAEV, V. R.: Thermometer of a dipole-dipole system. *Sov. Phys. Solid. State, Engl. Transl.* 13 (1972) 2617
- KORDES, E. (Univ. Bonn, Chem. Inst., Bonn 53, GFR): Über den Dissoziationszustand von Natriumdwolframat (Na<sub>2</sub>W<sub>2</sub>O<sub>7</sub>) in Schmelzen. *Z. Anorg. Allg. Chem.* 388 (1972) 291
- KORENBILT, I. YA., LAZARENKO, YU. P.: Thermomagnetic phenomena in ferromagnetic metals with magnetic impurities. *Sov. Phys. JETP., Engl. Transl.* 61 (1971) 645
- KORENBILT, I. YA., LAZARENKO, YU. P.: Galvanomagnetic and thermomagnetic effects in ferromagnetic semiconductors. *Sov. Phys. Semicond., Engl. Transl.* 5 (1972) 1850
- KORSHUNOV, V. A., GEL'D, P. V.: On the heat capacity of the highest manganese silicide. *Izv. Vyssh. Ucheb. Zaved. Fiz.* (1972) 111 (In Russian)
- KOSKI, H. (Univ. Helsinki, Dept. Phys., Helsinki 17, Finland): A calorimetric study of lithium nitrate trihydrate. *Suomen Kemistilehti B45* (1972) 135
- KOSTRYUKOVA, M. O., LUK'YANOVA, L. V.: Specific heat of anhydrous CrCl<sub>3</sub> at low temperatures. *Sov. Phys. JETP., Engl. Transl.* 61 (1971) 391
- KOUDELKA, L., FRUMAR, M. (Univ. Chem. Techn., Dept. Gen. and Inorg. Chem., Pardubice, Czechoslovakia): Phase diagram of the system PbTe—As<sub>2</sub>Te<sub>3</sub>. *J. Thermal Anal.* 4 (1972) 471
- KRUMME, J.-P., VERWEEL, J., HABERKAMP, J., TOLKSDORF, G., BARTELS, G., ESPINOSA, G. P. (Philips Forsch. Lab. Hamburg GmbH., 2000, Hamburg 54, GFR): Thermomagnetic recording in thin garnet layers. *Appl. Phys. Lett.* 20 (1972) 451
- KRÜGER, J. (Univ. Freiburg, Neurol. Klin., Abt. Neurophysiol., Freiburg 7800, GFR): Thermal properties of sodium silicate glasses at low temperatures. *Phys. Chem. Glasses* 13 (1972) 9
- KUBASCHEWSKI, P., ALCOCK, C. B. (Univ. Toronto, Dept. Met. and Mat. Sci., Toronto 181, Ont., Canada): Thermodynamic properties of Ag + Sn alloys. *J. Chem. Thermodyn.* 4 (1972) 259
- KURAMOTO, Y., FURUKAWA, H. (Kyushu Univ., Fac. Sci., Dept. Phys., Fukuoka, Japan): Melting curve anomaly and solid-solid phase transition at high pressures. *Prog. Theor. Phys. Kyoto* 47 (1972) 1069

- KUSANO, I., NELANDER, B., WADSÖ, I. (Miyazaki Univ., Fac. Engn., Miyazaki, Japan): A calorimeter for studies of adsorption of gases and liquids on solids. *Chem. Scr.* 1 (1971) 211
- KWART, H., SLUTSKY, J. (Univ. Delaware, Dept. Chem., Newark, Delaware, 19711 USA): Unimolecular thermal rearrangement of allylsilanes. A sigmatropic 1,3 migration of silicon. *J. Amer. Chem. Soc.* 94 (1972) 2515
- KWIATKOWSKI, A. (Inst. Math. Machines, Lab. Magnetochem., Warsaw, Poland): Ferrous malonate dihydrate thermal decomposition. *J. Inorg. Nucl. Chem.* 34 (1972) 1589
- LA GINESTRA, A., LO JACONO, M., PORTA, P. (Univ. Roma, Inst. Chim., CNEN, Lab. "F. Giordani", Roma, Italy): The preparation, characterization and thermal behaviour of some lithium aluminium oxides:  $\text{Li}_3\text{AlO}_3$  and  $\text{LiAlO}_4$ . *J. Thermal Anal.* 4 (1972) 5
- LAFFITTE, M., BROS, J. P., BERGMAN, C. (Univ. Provence, Lab. Chim. Gén., Marseille 3, France): Enthalpies de formation des alliages ternaires liquides étain-gallium-indium. *Bull. Soc. Chim. Belg.* 81 (1972) 163
- LAZERKO, G. A., KOSINSKAYA, E. S., NEOKLADNOVA, L. N. (V. I. Lenin State Univ., Minsk, BeSSR): Thermolysis kinetics of triethylenediamino-cobalt chloride. *Zh. Neorg. Khim.* 17 (1972) 720 (In Russian)
- LAWLESS W. N., PANCHYK, E. A. (Corning Glass Works, Res. and Dev. Labs., Corning, N. Y., 14830 USA): Thermometer equations for low temperature glass-ceramic capacitance thermometers. *Cryogenics* 12 (1972) 196
- LEBEDEVA, N. D., GUTNER, N. M. (Leningrad Appl. Chem. Inst., Leningrad, USSR): Heat of combustion and heat of formation of aliphatic amino derivatives. *Zh. Fiz. Khim.* 46 (1972) 1058 (In Russian)
- LEMSTRA, P. J., KOOISTRA, T., CHALLA, G. (State Univ., Groningen, Lab. Polymer. Chem., Groningen, Netherlands): Melting behavior of isotactic polystyrene. *J. Polym. Sci. A-2*, 10 (1972) 823
- LOBOV, G. D., SHTYKOV, V. V.: Thermomagnetic effect in plasma placed into a nonuniform magnetic field. *Radiotekh Elektron.* 17 (1972) 1234 (In Russian)
- LYALIKOV, YU. S., KITOVSKAYA, M. J. (Acad. Sci. Moldavian SSR, Chem. Ind., Anal. Chem. Lab., Kishinev, MoSSR): A thermogravimetric study of some dithiocarbamates. *J. Thermal Anal.* 4 (1972) 271
- LYUMKIS, S., ZOLKINA, M., DUBININA, K.: High-temperature effect on the reactivity of oxides and their solid solutions. *Zh. Prikl. Khim.* 45 (1972) 736 (In Russian)
- MACKENZIE, R. C. (Soil Res. Macaulay Inst., Craigiebuckler, Aberdeen, Scotland): How is an acceptable nomenclature system achieved? *J. Thermal Anal.* 4 (1972) 215
- MAGER, S., NIAC, G. (Babeş-Bolyai Univ., Dept. Chem., Cluj, Rumania): Camphor cryoscopy by differential thermal analysis. *J. Thermal Anal.* 4 (1972) 197
- MAHIEU, B., LADRIERE, J., CAMBIER, J., APERS, D., CAPRON, P. (Lab. Chim. Nucl., Parc d'Arenberg, Heverlee-Louvain, Belgium): La décomposition thermique du chlorochromate de potassium. *Bull. Soc. Chim. Belg.* 81 (1972) 343
- MAKEDON, I. D., PETROV, A. V., FELDGUN, L. I. (All Union Abrasives and Grinding Inst., Moscow, USSR): Thermal conductivity of compact specimens of cubic BN. *Izv. Akad. Nauk SSSR, Neorg. Mat.* 8 (1972) 765 (In Russian)
- MANANNIKOV, B. P., PANKRATOV, V. N. (Acad. Sci. USSR, Chem. Inst., Sverdlovsk, USSR): Microcalorimeter with a low time constant. *Zh. Fiz. Khim.* 46 (1972) 787 (In Russian)
- MALASPINA, L., GIGLI, R., BARDI, G. (Citta Univ. Rome, Inst. Chim., Rome 00185, Italy): Détermination microcalorimétrique de l'enthalpie de sublimation du zinc et du tellure. *Rev. Int. Hautes Temp. Réfract.* 9 (1972) 131
- MAREZIO, M., DERNIER, P. D., MENTH, A., HULL, G. W. (Bell Tel. Labs., Inc., Murray Hill, N. J., 07974 USA): The crystal structure of  $\text{NbSe}_2$  at 15°K. *J. Solid State Chem.* 4 (1972) 425
- MARKHAN, M. A., SIMANOVSKII, L. M., KHANIN, M. A.: Apparatus for the rapid measurement of thermal conductivity of thermoelectric materials. *Ind. Lab., Engl. Transl.* 37 (1971) 1627

- MARTIN, D. L. (Natl. Res. Council, Canada, Div. Phys., Ottawa, Ont., Canada): Low temperature specific heat of  $\text{Cu}_3\text{Au}$ . *Phys. Lett. A*, 39 A (1972) 320
- MARTIN, J. J. (Oklahoma State Univ., Phys. Dept., Stillwater, Oklahoma, 74074 USA): Thermal conductivity of  $\text{Mg}_2\text{Si}$ ,  $\text{Mg}_2\text{Ge}$  and  $\text{Mg}_2\text{Sn}$ . *Jap. J. Appl. Phys.* 33 (1972) 1139
- MCCOWAN, J. D., HANLAN, J. F. (Queens Univ., Dept. Chem., Kingston, Ont., Canada): Thermal decomposition of methyl titanium chlorides. *Can. J. Chem.* 50 (1972) 755
- MCGEE, T. H., SCHLEIFER, A. (Univ. New York, York Coll., Jamaica, N. Y., 11432 USA): Thermal decomposition of cyclobutanone. *J. Phys. Chem.* 76 (1972) 963
- MEIJER, P. H. E. (Catholic Univ. Amer., Washington, D. C., 20017 USA): Specific heat and susceptibility in chromium methylammonium alum above the critical temperature. *Phys. Rev. B-Solid State* 6 (1972) 214
- MEKHRAPOV, A. D. (C. Ildrym. Polytech. Inst., Baku, AzSSR): A study of heat capacity of lead-manganese alloys by monotonic heating method. *Fiz. Metal. Metalloved.* 33 (1972) 870 (In Russian)
- MENON, C. S., RAO, R. R. (Indian Inst. Technol., Dept. Phys., Madras 36, India): Lattice dynamics third order elastic constants and low temperature lattice thermal expansion of zirconium. *J. Phys. Chem. Solids* 33 (1972) 1325
- METCALFE, M. J., ROSENBERG, H. M. (Cent. Elect. Res. Labs., Leatherhead, Surrey, England): The magnetothermal resistivity of antiferromagnetic crystals at low temperatures: III.  $\text{ErVO}_4$ , a new antiferromagnetic. *J. Phys. C-Solid State Phys.* 5 (1972) 474
- MENZINGER, F., SACCHETTI, F. (CNEN, Ctr. Studi Nucl. Casaccia, Lab. Fis. Nucl., Rome, Italy): Magnetic form factor of pure cobalt in the high temperature f. c. c. phase. *Solid State Commun.* 10 (1972) 667
- MIJS, W. J., REESNIK, J. B., WIERSUM, U. E. (Akzo Res. Labs., Corp. Res. Dept., Arnhem, Netherlands): Formation of sulphene by thermolysis of *N*-methylsulphonylphthalimide. *J. Chem. Soc. Chem. Commun.* (1972) 412
- MILLER, R. I., ULBRICH, C. W. (Clemson Univ., Phys. Dept., Clemson, South Carolina, 29631 USA): Time response and thermal diffusivity of carbon resistance thermometers. *Cryogenics* 12 (1972) 173
- MIRONOV, V. A., FEDOROVICH, A. D., MILVITZKAIA, E. M., KOVNER, O. J., AKHREM, A. A. (N. D. Zelinskii Org. Chem. Inst., Moscow, USSR): Thermal conversion of bicyclo (4,1,0) hept- $\text{A}^2$ -ene. *Dokl. Akad. Nauk SSSR*, 203 (1972) 347 (In Russian)
- MIZUTANI, U., NOGUCHI, S., MASSALSKI, T. B. (Nagoya Univ., Dept. Appl. Phys., Nagoya, Japan): Electronic specific heat of  $\alpha$ -phase alloys based on copper and silver. *Phys. Rev. B-Solid State* 5 (1972) 2057
- MOGILEVSKII, B. M., SOKOLOV, V. N., CHUDNOVSKII, A. F.: Thermal conductivity of the antimony telluride—antimony selenide system in the molten state. *Sov. Phys. Solid State, Engl. Transl.* 13 (1972) 2604
- MORISAKI, S. (Res. Inst. Ind. Safety, Res. Div. Chem. Engr., 5-35-1, Shiba, Minato-ku, Tokyo, Japan): The thermal stability of irradiated polyethylene. *Thermochim. Acta* 4 (1972) 57
- MOROSIN, B. (Sandia Labs., Albuquerque, New Mexico, 87115 USA): Structure and thermal expansion of beryl. *Acta Crystallogr. B* 28 (1972) 1899
- MOROSIN, B., LYNCH, R. W. (Sandia Labs., Albuquerque, New Mexico, 87115 USA): Structure studies on  $\text{Al}_2\text{TiO}_5$  at room temperature and at 600 °C. *Acta Crystallogr. B* 28 (1972) 1040
- MUKHERJEE, T., SELLARS, C. M. (Tata Iron and Steel Co. Ltd., Jamshedpur, India): Tensile properties of tempered chromium steels in the temperature range 0° to 700 °C. *Met. Trans.* (1972) 953
- MURPHY, C. B. (Xerox Corp., Rochester, N. Y., 14644 USA): Thermal analysis. *Anal. Chem.* 44 (1972) 513 R
- NAGY, G., KACSOH, L., NYESTE, J., DÉZSI, J. (Tech. Univ., Dept. Plastics and Rubb. Inst., Budapest 11, Hungary): Differential thermoanalytical investigation of Fe(II) salt solutions frozen at different pressures. II. Solutions at high pressures. *J. Thermal Anal.* 5 (1973) 51

- NAGY, G., KACSÓH, J., NYESTE, J., DÉZSI, J. (Tech. Univ., Dept. Plastics and Rubb. Ind., Budapest 11, Hungary): Differential thermoanalytical investigation of Fe(II) salt solutions frozen at different pressures. I. Solutions frozen at normal pressures. *J. Thermal Anal.* 4 (1972) 251
- NATSENKO, A. I., ORLOVA, I. G., KAINARSKY, I. S. (Ukrainian Refractory Mat. Inst., Kiev, UKSSR): Microstructure and thermal resistance of corundum-based ceramics. *Izv. Akad. Nauk SSSR, Neorg. Mater.* 8 (1972) 893 (In Russian)
- NEMCHENKO, V. F., LVOV, S. N., MALKO, P. L., DELIEV, V. N. (N. K. Krupskaya Teachers Inst., Kherson, UKSSR): Thermo-electric power and Ettingshausen-Nernst coefficients of rhenium and metals of the platinum group. *Fiz. Metal. Metalloved.* 33 (1972) 540 (In Russian)
- NEMETH, J., YOUDELIS, W. V., PARR, J. G. (Champion Spark Plug. Co., Ceramics Div., Detroit, Mich., 48234 USA): High-temperature creep behavior of polycrystalline SrZrO<sub>3</sub>. *J. Am. Ceram. Soc.* 55 (1972) 125
- NELANDER, B., NORÉN, I. (Univ. Lund., Chem. Ctr., Termochem. Lab., Lund 220 07, Sweden): A calorimetric and spectrophotometric study on donor-acceptor complexes between some disulfides and iodine. *Acta Chem. Scand.* 26 (1972) 809
- NEUMANN, G. M. (OSRAM-Studiengesellschaft, München, GFR): High-temperature thermodynamics of chemical transport-reactions in the tungsten-halophosphonitrile systems. *Thermochim. Acta* 4 (1972) 73
- NEWKOME, G. R., FISHEL, D. L. (Louisiana State Univ., Dept. Chem., Baton Rouge, Louisiana, 70803 USA): Pyrolysis of ketone *N,N,N*-trimethyl-hydranzonium fluoroborates. Evidence for the genesis of pyridines. *J. Org. Chem.* 37 (1972) 1329
- NICHOLSON, R., LITTLEWOOD, D. (ICI, Wilton Works, Teesside, Middx., England): Plasma pyrolysis of coal. *Nature* 236 (1972) 397
- NIEWIEROWICZ, N., TUROWSKII, J. (Łódź Tech. Univ., Łódź, Poland): New thermometric method of measuring power losses in solid metal elements. *Proc. Inst. Elect. Eng.* 119 (1972) 629
- NOVOGRUDSKII, V. N., FAKIDOV, I. G. (Acad. Sci. USSR, Met. Phys. Inst., Moscow, USSR): Temperature dependence of transverse magnetoresistance in iron-rhodium alloy. *Fiz. Metal. Metalloved.* 33 (1972) 869 (In Russian)
- OELE, P. C., TINKELBERG, A., LOUW, R. (Univ. Leiden, Gorlaeus Lab., Leiden, Netherlands): Thermolysis of alkyl thiol- and thioacetates. *Tetrahedron Lett.* (1972) 2375
- OETTING, F. L., NAVRATIL, J. D. (Dow Chem. Co., Rocky Flats Div., Golden, Colorado, 80401 USA): Enthalpy of molybdenum and tantalum from 298 to 1400 °K. *J. Chem. Eng. Data* 17 (1972) 230
- OKAMOTO, H., BECK, P. A. (Univ. Illinois, Urbana, Illinois, 61801 USA): Magnetic properties and low temperature specific heat of Fe<sub>3</sub>Al and FeAl. *Monatsh. Chem.* 103 (1972) 907 (In German)
- OSIPOVA, V. A., KYAAR, H. A.: Thermophysical properties of an Al<sub>2</sub>O<sub>3</sub>-Mo cermet system. *At. Energ.* 32 (1972) 162 (In Russian)
- PADWA, A., CIMILUCA, P., EASTMAN, D. (State Univ. New York, Dept. Chem., Buffalo, N. Y., 14214 USA): Thermal and base-induced transformation of epoxy-*N*-nitrosocarbamates. *J. Org. Chem.* 37 (1972) 805
- PADWA, A., SACKMAN, P., SHEFTER, E., VEGA, E. (State Univ. New York, Dept. Chem., Buffalo, N. Y., 14214 USA): Thermal and photochemical rearrangements and X-ray crystal structure of a 2-benzazocine derivate. *J. Chem. Soc. Chem. Commun.* (1972) 680
- PAHUTOVÁ, M., HOSTINSKÝ, T., ČADEK, J. (Czechoslovak Acad. Sci., Inst. Phys. Met., Brno, Czechoslovakia): Dynamics of dislocations in high temperature creep of an Fe-3.5% Si alloy. *Acta Met.* 20 (1972) 693
- PAL, S. (Reg. Coll. Educ., Phys. Dept., Phubaneswar, India): Thermal properties of cesium. *J. Chem. Phys.* 56 (1972) 6234
- PANNETIER, G., MACAROVICI, D., GAULTIER, M. (Fac. Sci. Paris, Lab. Cinét. Chim., Paris 5<sup>e</sup>, France): Les complexes halogènes d'iridium. I. L'hexachloroiridate

- de sodium. *J. Thermal Anal.* 4 (1972) 177
- PANNETIER, G., MACAROVICI, D. (Fac. Sci. Paris., Lab. Cinét., Chim., Paris 5<sup>e</sup>, France): Les complexes halogènes d'iridium. II. Les hexachloroiridates de potassium, ammonium, rubidium et césium. *J. Thermal Anal.* 4 (1972) 187
- PANOUSIS, N. T., GSCHNEIDER, K. A. (Bendix Corp., Kansas City Div., Kansas City, Missouri, 64141 USA): Low-temperature heat capacity of  $\beta$ -cerium-yttrium alloys. *Phys. Rev. B-Solid State* 5 (1972) 4767
- PAPAZIAN, H. A. (Martin Marietta Corp., Denver, Colo., 80201 USA): Prediction of polymer degradation kinetics at moderate temperatures from high temperature TG measurements. *Thermochim. Acta* 4 (1972) 81
- PAPAZIAN, H. A., PIZZOLATO, P. J., ORRELL, R. R. (Martin Marietta Corp., Denver, Colo., 80201 USA): The thermal decomposition of aluminium sulfate and hafnium sulfate. *Thermochim. Acta* 4 (1972) 97
- PATTERSON, J. M., DEHAAN, J. W., BOYD, M. R., FERRY, J. D. (Univ. Kentucky, Dept. Chem., Lexington, Kentucky, 40506 USA): Thermal isomerization of substituted allylpyrroles. *J. Amer. Chem. Soc.* 94 (1972) 2487
- PATHAK, P. D., PANDYA, N. M. (Gujarat Univ., Sch. Sci., Phys. Dept., Ahmedabad 9, India): Anharmonic contribution to the thermal expansion of Al, Cu, and Ag at high temperatures. *J. Phys.-Metal Phys.* 2 (1972) L 14
- PAUKSHTE, YU. A., DAPKUS, D. Z. (Acad. Sci. LiSSR, Semicond. Phys. Inst., Vilnius, USSR): Anisotropy of thermal expansion of InTe. *Fiz. Tverd. Tela* 14 (1972) 1533 (In Russian)
- PAUKOV, I. E., ANISHIN, V. F., ANISIMOV, M. P. (Acad. Sci. USSR, Inorg. Chem. Inst., Novosibirsk, USSR): Vacuum adiabatic calorimeter with a volume of 2.5 cubic cm for thermodynamic studies of matter in an interval of 12–320 degrees K. *Zh. Fiz. Khim.* 46 (1972) 778 (In Russian)
- PAULIK, F., PAULIK, J. (Tech. Univ. Budapest, Inst. Gen. and Anal. Chem., Budapest 11, Hungary): "Quasi-isothermal" and "quasi-isobaric" thermogravimetry. *Anal. Chim. Acta* 60 (1972) 127
- PELIZZA, F., CASELLATTO, F., GIRELLI, A. (Stazione sperimentale per i Combustibili, 20097, San Donato Milanese, Italy): Thermal stability of crystalline complexes of pyromellitic dianhydride with polycyclic aromatic hydrocarbons. *Thermochim. Acta* 4 (1972) 135
- PIELICHOWSKI, J. (Pedagog. Univ., Inst. Chem., Opole, Poland): Thermal studies of polyvinylcarbazole and polyvinylidibromocarbazole. *J. Thermal Anal.* 4 (1972) 339
- PIHLAJA, K., HIEKKILÄ, J. (Univ. Turku, Dept. Chem., 20 500 Turku 50, Finland): Heats of formation of cyclic vinyl ethers. A correction. *Suomen Kemistilehti B45* (1972) 148
- PLEKHANOVA, L. G., NIKIFOROV, G. A., ERSHOV, V. V. (Acad. Sci. USSR, Chem. Phys. Inst., Moscow, USSR): Thermal dissociation of 2,6-di-tert-butyl-para-benzoquinone diazide in halogen hydrocarbons. *Zh. Org. Khim.* 8 (1972) 809 (In Russian)
- POCZOPKO, S., ORZESZKO, W. (N. Copernicus Univ., Dept. Phys. Chem., Toruń, Poland): Calorimetric investigations of  $MgSO_4-CO(NH_2)_2-H_2O$  system at 25°C. *Rocz. Chem.* 46 (1972) 259 (In Polish)
- POP, A., KRÖBL, P., JÓZSA, P. (Babeş-Bolyai Univ., Dept. Chem., Cluj, Romania): The influence of the composition and of the activation temperature upon the adsorption and thermodesorption of ammonia on aluminium oxide silica gels. *J. Thermal Anal.* 4 (1972) 451
- POPLAVKO, YU. M., REZ, I. S., GORBOKON, N. V., DIMAROVA, E. N. (Kiev Polytech. Inst., Kiev, UkSSR): The thermoelectric properties of KDP in the vicinity of the high-temperature phase-transition. *Kristallografiya* 17 (1972) 680 (In Russian)
- POROTIKOV, A. P., KHOLLER, V. A., LUFT, B. D., KUZNETSOVA, L. V. (Acad. Sci. USSR, Radio Engr. and Electr. Inst., Moscow, USSR): Thermal effects of selenium crystallization in organic mediums. *Izv. Akad. Nauk SSSR, Neorg. Mater.* 8 (1972) 793 (In Russian)
- POWELL, J. A., WILL, H. A. (Lewis Res. Ctr., Natl. Aeronaut. and Space Adm., Cleveland, Ohio, 44135 USA): Low-temperature solid-state phase transformation in 2H silicon carbide. *J. Appl. Phys.* 43 (1972) 1400
- PRIBYLOV, K. P., KOVSHOVA, L. V., YARKOVA, E. G. (Kazan State Univ., Kazan,

- USSR): Thermal dehydration of chromium hydroxide. *Zh. Neorg. Khim.* 17 (1972) 895 (In Russian)
- RADCHENKO, A. F., MEDVEDEVA, Z. S., BALUEV, A. V., KRENEV, V. A. (N. S. Kumakov Gen. and Inorg. Chem. Inst., Moscow, USSR): Thermal decomposition of boron arsenides. *Izv. Akad. Nauk SSSR, Neorg. Mater.* 8 (1972) 767
- RAO, C. V. S. H. N., ROUFF, A. L. (Cornell Univ., Dept. Mat. Sci. and Engn., Ithaca, N. Y., 14850 USA): High-temperature creep of lithium fluoride. *J. Appl. Phys.* 43 (1972) 1437
- RAO, K. R., RAO, K. S., VAIDYESWARAN, R. (Reg. Engn. Coll. Dept. Phys., Hyderabad 9, India): Decomposition of volatile products of low temperature carbonization of coal. *Erdöl Kohle Erdgas-Petr. Br. Ch.* 25 (1972) 191 (In German)
- RAZUVAEV, G. A., OSANOVA, N. A. (Gorki State Univ., Dept. Chem., Gorki, USSR): Thermal decomposition of alkoxy and aroxy derivatives of pentavalent phosphorus and antimony compounds. *J. Organometal. Chem.* 38 (1972) 77
- RAZUVAEV, G. A., SLADKOVA, T. A., DOMRACHEV, G. A., SHALNOVA, K. G., GRIBOV, B. G., MARIN, V. P. (N. D. Zelinskii Org. Chem. Inst., Moscow, USSR): Catalytic properties of metals obtained in thermal decomposition of organometallic compounds. *Dokl. Akad. Nauk SSSR* 203 (1972) 848 (In Russian)
- REED, S. F. (Rohm and Haas Co., Philadelphia, Pa., 19137 USA): Telechelic diene prepolymers. III. Polymerization temperature study of polybutadienes. *J. Polym. Sci. A-1*, 10 (1972) 649
- REIMLINGER, H. (Union Carbide European Res. Assoc., Brussels 1160, Belgium): Thermolysis of 5-aminotetrazole. *Chem. Ind.* (1972) 294
- RENOUARD, M., WATTEAU, M. (Cégédur, GP., Lab. Cent., Issoire, France): Étude de la plasticité à chaud de quelques alliages d'aluminium au moyen d'essai de torsion-application au laminage à chaud. *Rev. Met. Paris* 69 (1972) 207
- REVITT, D. M., SOWERBY, D. B. (c/o Sowerby, D. B., Univ. Nottingham, Dept. Chem., Nottingham NG7 2RD, England): Organo-arsenic azides: preparation and thermal decomposition. *J. Chem. Soc. Dalton Trans.* (1972) 847
- RICHARDSON, J. T. (Univ. Houston, Dept. Chem. Engn., Houston, Texas, 77004 USA): Thermo-magnetic studies of iron compounds in coal char. *Fuel* 51 (1972) 150
- RICHERSON, D. W., HUMMEL, F. A. (Norton Co., Worcester, Mass., 01606 USA): Synthesis and thermal expansion of polycrystalline cesium minerals. *J. Am. Ceram. Soc.* 55 (1972) 269
- ROSENSTOCK, H. B. (USN, Res. Lab., Washington, D. C., 20390 USA): Anomalous specific heat of glasses: its temperature dependence. *J. Non-Cryst. Solids* 7 (1972) 123
- ROUTIE, R., MANNONI, M., MAHENC, J. (Univ. Paul-Sabatier, Inst. Génie Chim., 31-Toulouse 04, France): Propriétés thermo-électriques et composition du tellure cuivreux. *Rev. Chim. Minér.* 9 (1972) 357
- ROUXHET, P. G., GILLARD, J. L., FRIPIAT, J. J. (Lab. Physicochim. Minérale, Croylaan 42, Heverlee 3030, Belgium): Thermal decomposition of amosite, crocidolite, and biotite. *Miner. Mag.* 38 (1972) 583
- ROWSE, J. B., JEPSON, W. B. (English Clays Lovering Pochin Co. Ltd., Ausstell, Cornwall, England): The determination of quartz in clay materials. A critical comparison of methods. *J. Thermal Anal.* 4 (1972) 169
- RUBTSOV, Y. I., MANELIS, G. B. (Acad. Sci. USSR, Chem. Phys. Inst., Moscow, USSR): Kinetics of thermal dissociation of hydrazonium chloride. *Zh. Fiz. Khim.* 46 (1972) 627 (In Russian)
- RUMAO, L. P., FRISCH, K. C. (c/o Frisch, K. C., Univ. Detroit, Polym. Inst., Detroit, Michigan, 48221 USA): Thermal degradation of polyurethanes based on xylylene diisocyanates. *J. Polym. Sci. A-1*, 10 (1972) 1499
- RUPPIN, R. (Soreq Nucl. Res. Ctr., Yavné, Israel): Grüneisen parameters and thermal expansion of CaO and SrO. *Solid State Commun.* 10 (1972) 1053
- RUNSINK, J., SWEN-WALSTRA, S., MICHÉLSEN, T. (Rijks Univ. Groningen, Lab. Struct. Chem., Groningen, Netherlands): Refinement of the crystal structure of



- (C<sub>6</sub>H<sub>5</sub>)<sub>3</sub>AsI<sub>3</sub> at 20°C and at 160°C. *Acta Crystallog. B* 28 (1972) 1331
- RYZHENKOV, A. P. (Acad. Sci. USSR, Inst. Organoelement. Cpds., Moscow, USSR): Investigation of the thermal expansion of molecular crystals. IV. The tensor of thermal expansions of pentaerythritol. *Kristallografiya* 17 (1972) 425 (In Russian)
- SAKAMOTO, R., TAKAHASHI, Y., OZAWA, T. (Electrotech. Lab., Tanashi, Japan): Mass-spectrometric thermal analysis of impurities in epoxy resins. *J. Appl. Polym. Sci.* 16 (1972) 1047
- SAVITSKII, E. M., SUKHAREVSKII, B. J., BARON, V. V., ANDERS, E. E., FROLOV, V. A., SHESTAKOVA, I. V. (Acad. Sci. UkSSR, Low Temp. Engn. Phys. Inst., Harkov, UkSSR): Specificities of temperature dependences of the heat-conduction coefficients of solid solutions of the niobium-zirconium system. *Dokl. Akad. Nauk SSSR* 203 (1972) 1044 (In Russian)
- SCHNAUS, U. E., MARSHALL, A., MOYNIHAN, C. T. (Catholic Univ. Amer., Vitreous State Lab., Washington, D. C., 20017 USA): Heat capacities of glasses and liquids in the pseudobinary system Ge<sub>x</sub>As<sub>40-x</sub>S<sub>60</sub>. *J. Amer. Ceram. Soc.* 55 (1972) 180
- SCHNITZER, M., KODAMA, H. (Canada Dept. Agr., Soil Res. Inst., Ottawa, Ont., Canada): Differential thermal analysis of metalfulvic acid salts and complexes. *Geoderma* 7 (1972) 93
- SCHWARZ, E. M., GRUNDSTEIN, V. V., JEVINS, A. F. (Inst. Inorg. Chem., Riga, USSR): Thermal investigation of polyols. I. Hexitols and pentitols. *J. Thermal Anal.* 4 (1972) 331
- SEIFER, G. B., TARASOVA, Z. A. (N. S. Kurnakov Gen. and Inorg. Chem. Inst., Moscow, USSR): Thermal decomposition of nitroprussides of metals. *Zh. Neorg. Khim.* 17 (1972) 1361 (In Russian)
- SEVERSON, R. F., SCHULLER, W. H., LAWRENCE, R. V. (USN, Stores Lab., Olustee, Florida, 32072 USA): Pyrolyses of certain resin acids at 800°C. *J. Chem. Eng. Data* 17 (1972) 250
- SHAFER, M. W. (IBM Corp., Thomas J. Watson Res. Ctr., Yorktown Hts., N. Y., 10598 USA): The formation of europium sulfide by the H<sub>2</sub>S-Eu<sub>2</sub>O<sub>3</sub> reaction at high temperatures. *Mater. Res. Bull.* 7 (1972) 603
- SHAFIZADEH, F., SUSOTT, R. A., MCGINNIS, G. D. (Univ. Montana, Dept. Chem., Wood Chem. Lab., Missoula, Montana, 59801 USA): Pyrolysis of substituted phenyl β-D-glucopyranosides and 2-deoxy-α-D-arabinohexopyranosides. *Carbohydr. Res.* 22 (1972) 63
- SHAULOV, Y. K., MARKOVA, I. Y., POPOV, Y. A., RUCHKIN, E. D. (Moscow Electr. Machinery Inst., Moscow, USSR): Thermo-oxidative destruction of germanium phthalocyanine in the air. *Zh. Neorg. Khim.* 17 (1972) 634 (In Russian)
- SHESTAKOVA, M. T., DVORNIKOVA, L. M. (Saratov State Univ., Saratov, USSR): Differential-thermal and thermogravimetric studies of rare earth 5-sulfosalicylates. *Zh. Neorg. Khim.* 17 (1972) 971 (In Russian)
- SHIBANOV, E. V., CHUKHLANTSEV, V. G. (S. M. Kirov Polytech. Inst., Sverdlovsk, USSR): Enthalpies of dissolution and formation of sodium zirconosilicates Na<sub>4</sub>Zr<sub>2</sub>Si<sub>4</sub>O<sub>15</sub> and Na<sub>14</sub>Zr<sub>2</sub>Si<sub>10</sub>O<sub>31</sub>. *Zh. Fiz. Khim.* 46 (1972) 1050 (In Russian)
- SHPIĻ'RAIN, É. É., KAGAN, D. N., BARKHATOV, L. S.: Thermodynamic properties of beryllium oxide in the liquid and solid phases. *High Temp. USSR, Engl. Transl.* 9 (1971) 842
- SHTILIKHA, M. V., CHEPUR, D. V. (Uzhgorod State Univ., Uzhgorod, UkSSR): Thermal conductivity of bismuth oxyhalide crystals. *Fiz. Tverd. Tela* 14 (1972) 1569
- SIMON, J. (Techn. Univ., Inst. Gen. and Anal. Chem., Budapest 11, Hungary): Determination of water content by means of the derivatograph. *J. Thermal Anal.* 4 (1972) 205
- SINGH, H. P. (Banaras Hindu Univ., Dept. Met. Engn., Varanasi 5, India): Calorimetric investigations of low-melting alloy systems. *Scr. Metal.* 6 (1972) 519
- SINGH, S. N., GEORGE, M. V. (c/o George, M. V., Indian Inst. Technol., Dept. Chem., Kanpur, India): Photochemical and thermal transformations of O-alkyl S-phthalyl xanthates and dithiocarbamylphthalides. *J. Org. Chem.* 37 (1972) 1375
- SJÖSTRAND, M. E., KEESOM, P. H. (Purdue Univ., Phys. Dept., Lafayette, Indiana, 47907 USA): Anomalous behaviour of

- the low temperature specific heat of V-doped  $Ti_2O_3$ . *Phys. Lett. A*, 39 A (1972) 147
- SKINNER, H. A., VIRMANI, Y. (Univ. Manchester, Chem. Dept., Manchester M13, 9PL, England): High-temperature microcalorimetry: the thermal decomposition of  $Cr(CO)_6$  and  $Mo(CO)_6$ . *Phys. Lett. A*, 39A (1972) 147
- SMIRNOV, I. A., PARFENJEVA, L. S., KHUSNUTDINOVA, V. YA., SERGEEVA, V. M. (Acad. Sci. USSR, Semicond. Inst., Leningrad, USSR): Thermal conductivity of  $Me_3X_4$  type rare-earth chalcogenides. *Fiz. Tverd. Tela* 14 (1972) 844 (In Russian)
- SMIRNOV, I. A., PARFENJEVA, L. S., SERGEEVA, V. M. (Acad. Sci. USSR, Semicond. Inst., Leningrad, USSR): Thermal conductivity of  $La_2Te_3$ - $La_3Te_4$  system. *Fiz. Tverd. Tela* 14 (1972) 1050 (In Russian)
- SMITH, M. R., IROGOLIC, K. J., ZINGARO, R. A. (Texas A and M Univ., Dept. Chem., College Station, Texas, 77843 USA): The thermal analysis of alkylarsonic acids. *Thermochim. Acta* 4 (1972) 1
- SOKOLOV, A. N., ZELENSKY, A. I., VISHNYAKOVA, T. P. (S. M. Kirov Technol. Inst., Minsk, BeSSR): Polyethylene thermostabilization. *Dokl. Akad. Nauk BeSSR* 16 (1972) 531 (In Russian)
- SOLYMOSI, F. (Hung. Acad. Sci., Gaskinet. Rech. Grp., Szeged, Hungary): Structure and thermal stability of nonmetal perchlorates. *Kém. Közlem.* 37 (1972) 177 (In Hungarian)
- SOUTHERN, J. H., PORTER, R. S., BAIR, H. E. (Monsanto Co., Nylon Res., Pensacola, Florida, 23502 USA): Melting behavior of polyethylene crystallized in a pressure capillary viscosimeter. *J. Polym. Sci. A-2*, 10 (1972) 1135
- SRIVASTAVAO, G. P. MEHRA, R. M. (Univ. Delhi, Dept. Phys. and Astrophys., Delhi 7, India): The free carrier magnetomicro-wave Kerr effect in p type germanium at 296 °K and 77 °K. *J. Phys. C-Solid State Phys.* 10 (1972) 928
- STEPANYAN, S. A., KOZLOV, L. V. (Plast. Res. Inst., Moscow, USSR): Spectroscopic study of thermal and thermal-oxidative degradation of poly(ester) urethane. *Vysokomol. Soedin Ser. B* 14 (1972) 246 (In Russian)
- STEPHENS, J. R., KLOPP, W. D. (Lewis Res. Ctr., Cleveland, Ohio, 44135 USA): High-temperature creep of polycrystalline chromium. *J. Less-Common. Metals* 27 (1972) 87
- STRUKOV, B. A., BADDUR, A., KPTSİK, V. A., VELICHKO, I. A. (M. V. Lomonosov State Univ., Moscow, USSR): Electric and thermal properties of  $KH_2(1-x)D_{2x}PO_4$  mixed ferroelectric crystals. *Fiz. Tverd. Tela* 14 (1972) 1034 (In Russian)
- SUGA, K., WATANABE, S., FUJITA, T., SHIMADA, T. (c/o Watanabe, S., Chiba Univ., Fac. Engn., Dept. Appl. Chem., Yayoicho, Chiba, Japan): Thermal isomerization of 1,5-dimethyl-1-cyclooctane. *Isr. J. Chem.* 10 (1972) 15
- SUGHARA, K., TAKEZAWA, T., TSUZUKI, T., HISHIYAMA, Y., ONO, A. (Matsushita Elect., Res. Lab., Kadoma, Osaka, Japan): Thermomagnetic effects in graphite. *J. Phys. Chem. Solids* 33 (1972) 1475
- SWANSON, B. W., ROIDT, R. M. (Westinghouse Res. Labs., Churchill Brgh., Pa., 15235 USA): Thermal analysis of an  $SF_6$  circuit breaker arc. *IEEE Trans. Power App. Syst. PAS-91* (1972) 381
- TAKASHIMA, I., KUROZUMI, T., SAITA, O., KUHARA, Y. (Sci. Univ. Tokyo, Fac. Engn., Sinjuku-ku, Tokyo, Japan): Triplet calorimetry at rising temperatures for rapid analysis of liquid phase reaction kinetics. *Nippon Kagaku Kaishi* (1972) 929 (In Japanese)
- TARASKIN, S. A., LYAKHOVITSKAYA, V. A., IVANOV-SHITS, A. K. (M. V. Lomonosov State Univ., Moscow, USSR): The thermal capacity of SbSI polycrystals. *Kristallografiya* 17 (1972) 681 (In Russian)
- TAYLOR, A., STRINGER, J. (Univ. Liverpool, Dept. Mat. Sci., Liverpool, Lancs., England): The oxidation of Nb at 5.5% Mo single crystals and polycrystals in the temperature range 530°-1100°C. *Corros. Sci.* 12 (1972) 349
- TAYLOR, D. (Doulton Res. Ltd., Brasil Green Lab., Chertsey, Surrey, England): The thermal expansion behaviour of the framework silicates. *Miner. Mag.* 38 (1972) 593
- TESELKIN, V. I., SHAPIRO, G. I.: Application of quartz dilatometer to the study of crystallization kinetics of polymers. *Ind. Lab., Engl. Transl.* 37 (1971) 1754

- THORNBURG, D. D. (Xerox Palo Alto Res. Ctr., Palo Alto, California, 94304 USA): In situ differential scanning calorimetry of thin films. *J. Vac. Sci. Technol.* 9 (1972) 186
- TIVARI, H. W., NARAYANAN, P. S.: Anomalous thermal expansion of  $\text{KH}_3(\text{SeO}_3)_2$  crystals. *Sov. Phys.-Cryst., Engl. Transl.* 16 (1972) 824
- TKACH, G. F., YURCHAK, R. P. (M. V. Lomonosov State Univ., Moscow, USSR): Measurement of thermal parameters of rocks in a wide interval of temperatures. *Fiz. Zemli* (1972) 81 (In Russian)
- TRAHAN, J., GOODRICH, R. G. (Louisiana State Univ., Dept. Phys. and Astron., Baton Rouge, Louisiana, 70803 USA): Heat capacity of hexagonal NiS: Metal-nonmetal transition. *Phys. Rev. B-Solid State* 6 (1972) 199
- UJIHARA, K. (Univ. Electro. Commun., 14 Kojima-cho, Chofu-shi, Tokyo, Japan): Reflectivity of metals at high temperatures. *J. Appl. Phys.* 43 (1972) 2376
- UJMA, Z., OLECH, J., WRÓBEL, Z. (Silesian Univ., Inst. Phys., Katowice, Poland): Thermoelectric effect in semiconductive  $\text{PbZrO}_3$ . *Acta Phys. Pol. A* 41 (1972) 179
- URBAN, S., JANIK, J. A., LENIK, J., MAYER, J., WALUGA, T., WRÓBEL, S. (Jagellonian Univ., Inst. Phys., Cracow, Poland): Calorimetric, dielectric, and infrared investigations of solid *t*-butyl chloride. *Phys. Status Solidi-A* 10 (1972) 271
- VAN DEN BOOMGAARD, J. (Philips Res. Labs., Eindhoven, Netherlands): Stability of the high-temperature phase  $\text{FeSi}_2$ . *J. Iron Steel Inst.* 210 (1972) 276
- VAN REEUWIJK, L. P. (State Agr. Univ., Dept. Soil Sci., Wageningen, Netherlands): High temperature phases of zeolites of the natrolite group. *Amer. Mineral.* 57 (1972) 499
- VASILEV, V. G., ERSHOVA, Z. V.: Thermal dissociation of anhydrous beryllium sulfate. *Zh. Neorg. Khim.* 17 (1972) 631 (In Russian)
- VASILEV, V. G., ERSHOVA, Z. V., UTKINA, O. N., CHEBOTAREV, N. T.: Dehydration of beryllium sulfate tetrahydrate. *Zh. Neorg. Khim.* 17 (1972) 625 (In Russian)
- VERDONK, A. H. (State Univ. Utrecht, Dept. Inorg. Chem., Utrecht, Netherlands): Synthesis and thermal decomposition of potassium trioxalatoaluminate hydrate. *Thermochim. Acta* 4 (1972) 25
- VERDONK, A. H. (State Univ. Utrecht, Dept. Inorg. Chem., Utrecht, Netherlands): Thermal decomposition of potassium di- $\mu$ -hydroxo-bis (dioxalatoaluminate) hydrate. *Thermochim. Acta* 4 (1972) 85
- VERENKOVA, E. M., ZHOROV, G. A., SAMOILOV, A. I., UMANTSEVA, V. M., FROLOV, A. S.: The effect of structure of the radiation capacity of alumochromophosphate coating at high temperatures. *Izv. Akad. Nauk SSSR, Neorg. Mater.* 8 (1972) 907 (In Russian)
- VERESHCHAGIN, A. L., SVIRDOV, V. V. (V. I. Lenin State Univ., Inorg. Chem. Dept., Minsk, BeSSR): Thermal decomposition products of coprecipitated zirconium and nickel hydroxides. *Zh. Neorg. Khim.* 17 1481 (In Russian)
- VEVAL, J. E., ELLIOT, D. G., HONEYWELL, W. I. (Univ. Houston, Chem. Engn. Dept., Houston, Texas, 77004 USA): Resistance thermometry in magnetic fields. I. Thermistors and platinum thermometers at 77°K. *Cryogenics* 12 (1972) 192
- VIGDOROVICH, V. N., PELEVIN, O. V., UFIMTSEVA, E. V. (Moscow Electr. Engn. Inst., Moscow, USSR): Fusion heat and entropy of ZnTe. *Izv. Akad. Nauk SSSR, Neorg. Mat.* 8 (1972) 753 (In Russian)
- VILTANGE, M. (CNRS, Ecol. Nat. Supér. Chim., Lab. Res. Microanal., Paris 5<sup>e</sup>, France): Étude thermoanalytique de conditions de formations du gallate de sodium. I. Etude du système  $\text{NaOH}-\text{Ga}_2\text{O}_3$ . *J. Thermal Anal.* 4 (1972) 417
- VINTAIKIN, E. Z., ITKIN, V. P., MOGUTNOV, B. M. (Met. Sci. and Phys. Inst., Moscow, USSR): Calorimetric study of atomic ordering effects in  $\text{Ni}_3\text{Cr}$  alloy. *Fiz. Metal. Metalloved.* 33 (1972) 846 (In Russian)
- VITALE, G. F. (Univ. Naples, Ist. Elettrotec., Naples 80125, Italy): Thermal properties of semiconductors, lasers. *Alta Freq.* 41 (1972) 90-16 E
- VUČELIČ, D., STAMATOVIČ, A., TODORIČ, U. (Fac. Sci., Dept. Phys. Chem., Belgrade, Yugoslavia): Baseline interpolation in DTA and DSC quantitative analysis of

- slow processes. *J. Thermal Anal.* 4 (1972) 479
- VYGODSKAYA, E. M.: Calculating heats of formation for beryllium alkyls. *Zh. Fiz. Khim.* 46 (1972) 800 (In Russian)
- WAKEFIELD, C. I., LUFF, B. B. (Tennessee Valley Author, Div. Chem. Dev., Muscle Shoals, Alabama, 35660 USA): Low-temperature capacity and entropy of triammonium hydrogen pyrophosphate monohydrate. *J. Chem. Eng. Data* 17 (1972) 134
- WALLACE, P. R., GUPTA, O. P. (McGill Univ., Dept. Phys., Montreal, Que., Canada): The low temperature magnetic susceptibility of semiconductors in strong magnetic fields. *Phys. Status Solidi B*, 50 (1972) 619
- WANAGEL, J., SASS, S. L., BATTERMAN, B. W. (Cornell Univ., Dept. Mat. Sci. and Engn., Ithaca, N. Y., 14850 USA): Low-temperature phase transformation in the vanadium-hydrogen system. *Phys. Status Solidi A-Appl. Res.* 11 (1972) 767
- WANG, R. (Univ. South California, Dept. Mat. Sci., Los Angeles, Calif., 90007 USA): Formation of metastable low temperature allotropic solid solutions in rare earth-zirconium systems. *Met. Trans.* 3 (1972) 1213
- WESTON, C. W., BAILEY, G. W., NELSON, J. H., JONASSEN, H. B. (Tulane Univ., Richardson Chem. Lab., New Orleans, Louisiana, 70118 USA): The characterization and thermal analysis of Ni[HP(C<sub>6</sub>H<sub>5</sub>)<sub>2</sub>]<sub>4</sub> and Pd[HP(C<sub>6</sub>H<sub>5</sub>)<sub>2</sub>]<sub>4</sub>. *J. Inorg. Nucl. Chem.* 34 (1972) 1752
- WEST, E. D., CASE, W. E., RASMUSSEN, A. L., SCHMIDT, L. B. (NBS, Inst. Basic Stand., Boulder, Colorado, 80302 USA): A reference calorimeter for laser energy measurements. *J. Res. Nat. Bur. Stand. A* 76A (1972) 13
- WETTINCK, E. (Govt. Univ. Lab. Non Ferrous Met., Ghent, Belgium): The effect of a thermomechanical treatment on the microstructure and mechanical properties of a Cu-Al alloy. *Z. Metallk.* 63 (1972) 214
- WHITE, A. J. C., PISTORIUS, C. W. F. T. (South African CSIR, Chem. Phys. Grp. Natl. Inst., Pretoria, South Africa): Melting and polymorphism of KHF<sub>2</sub>, RbHF<sub>2</sub>, and CsHF to high pressures. *J. Chem. Phys.* 56 (1972) 4318
- WHITE, G. K. (CSIRO, Div. Phys., Natl. Stand. Lab., Sydney, Australia 2008): Thermal expansion of platinum at low temperature. *J. Phys. F-Metal Phys.* 2 (1972) L 30
- WITTIG, F. E., SAES, N., WALDHERR, W. (Univ. München, Inst. Phys. Chem., München 2, GFR): Die Mischungswärmen im ternären System Antimon-Zinn-Zink bei 650°C. *Rev. Chim. Miner.* 9 (1972) 71
- WOLF, W. P., SCHNEIDER, B., LANDAU, D. P., KEEN, B. E. (Yale Univ., Becton Ctr., New Haven, Connecticut, 06520 USA): Magnetic and thermal properties of dysprosium aluminium garnet. II. Characteristic parameters of an ising antiferromagnet. *Phys. Rev. B-Solid State* 5 (1972) 4472
- WÖRLE, R. (Tech. Univ. München, Lehrstuhl Mineral Chem., 8 München 2, GFR): Untersuchungen zur thermischen Stabilität ausgewählter flüssiger 2,4,6-Trialkoxy-s-tirozine. *Erdöl Kohle Erdgas-Petr. Br.-Ch.* 25 (1972) 252
- YAMAMOTO, O. (Univ. Tokyo, Inst. Space Aeron. Sci., Dept. Mat., Polym. Res. Div., Komaba, Meguro-ku, Tokyo, Japan): Thermal conductivity of cross-linked polymers. *Polym. Journal* 2 (1971) 509
- YOON, H. I., HULTGREN, R. (c/o Hultgren, R., Univ., California, Lawrence Berkeley Lab., Berkeley, Calif., 94720 USA): Heats of formation of solid indium-lead alloys. *J. Chem. Engn. Data* 17 (1972) 176
- ZAPOLSKY, A. K., FEDORITENKO, I. I., VOLKOVSKAYA, A. I.: Thermal dissociation of basic sulphate K<sub>2</sub>[Al<sub>6</sub>(SO<sub>4</sub>)<sub>5</sub>(OH)<sub>10</sub>] · 4H<sub>2</sub>O in reducing atmosphere. *Ukr. Khim. Zh.* 38 (1972) 460 (In Russian)
- ZEN, E. (US. Geol. Survey, Washington, D. C., 20242 USA): Gibbs free energy, enthalpy and entropy of ten rock-forming minerals: calculations, discrepancies, implications. *Amer. Mineral.* 57 (1972) 524
- ZHELANKIN, V. I., DRONOVA, N. D., OBOZHENKO, Y. V.: Thermal decomposition of oxychloride and hydrate of aluminium oxide. *Zh. Neorg. Khim.* 17 (1972) 599 (In Russian)

- ZHUKOVSKII, V. M., YANUSHKEVICH, T. M. (A. M. Gorkii State Univ., Sverdlovsk, USSR): Thermodynamic stability of molybdates of alkali metals, magnesium and beryllium. *Zh. Neorg. Khim.* 17 (1972) 689 (In Russian)
- ZINOV'EV, V. E., KORSHUNOV, I. G., GEL'D, P. V.: Effect of thermal vacancies on the specific heat of platinum at elevated temperatures. *Sov. Phys. Solid. State, Engl. Transl.* 13 (1971) 2924