

Bibliography Section

- ABE, M., KAWACHI, M., NOMURA, S. (Tokyo Inst. Technol., Dept. Phys. Electr., Ōoka-yama, Meguro-ku, Tokyo, Japan): Compensation temperature of spontaneous magnetization in spinel Fe_2MoO_4 . *J. Phys. Soc. Jap.* 31 (1971) 940
- ABERDAM, D., GAUBERT, C. (Univ. Sci. and Med. Grenoble, CNRS, Grenoble, France): Study of the temperature dependence of LEED intensities from the (001) surface of BaTiO_3 between 20°C and 650°C. *Thermochim. Acta* 3 (1972) 571
- ABOUL-SEOU, A., EL-SHERIF, M. (Univ. Alexandria, Fac. Engn., Alexandria, UAR): The thermodynamics of the ortho-, and para-bromoanilines. *Annal. Chim.* 61 (1971) 703
- ABRAMOV, A. A.: Evaporation kinetics of porous materials. *High Temp. USSR, Engl. Transl.* 9 (1971) 181
- ACKER, E., RECKER, K., HAUSSEHL, S., SIEGERT, H. (Univ. Bonn, Mineral. Petrol. Inst., Bonn, GFR): Elastische und thermo-elastische Konstanten des monoklinen Zinndifluorids. *Z. Naturforsch.* 26 A (1971) 1766
- ADAMOV, A. P., GASANOV, G. D.: Experimental investigation into the thermal conductivity of helium. *High Temp. USSR, Engl. Transl.* 9 (1971) 45
- AGALARZADE, P. S., ASTAFIEV, A. S., GRISHAEVA, N. I., IZIDINOV, S. O., CHERNTSOV, S. M. (V. I. Lenin All Union Elect. Engn. Inst., Moscow, USSR): Production of dense SiO_2 films by means of low-temperature decomposition of tetraethoxysilane. *Izv. Akad. Nauk SSSR, Neorg. Mater.* 7 (1971) 1975 (In Russian)
- AIZAWA, M., SUZUKI, S. (Tokyo Inst. Technol., Res. Lab. Resources Utiliz., Meguro-ku, Tokyo, Japan): Properties of water in macromolecular gels. III. Dilatometric studies of the properties of water in macromolecular gels. *Bull. Chem. Soc. Jap.* 44 (1971) 2967
- ALEKSEEVA, T. A., TERESHCHENKO, A. P., TRESVYATSKAYA, P. A. (Moscow Med. Biol. Technol. Inst., Moscow, USSR): Standard enthalpy of formation of hexamethylenedithiocarbamatehexamethyleneammonium. *Zh. Fiz. Khim.* 45 (1971) 2944 (In Russian)
- ALEKSANDROV, V. V., KHAIRETDINOV, E. F. (Acad. Sci. USSR, Chem. Kinetics and Combustion, Novosibirsk, USSR): On the sublimation of ammonium perchlorate. *Kinet. Katal.* 12 (1971) 1327 (In Russian)
- ALIEV, M. I., ABDINOVA, S. G., ALIEV, S. A. (Acad. Sci. AzSSR, Inst. Phys., Baku, AzSSR): Thermal conductivity of InSb - NiSb eutectic alloy. *Phys. Status Solidi A-Appl. Res.* 9 (1972) K 57
- AMIGÓ, J. M., GARCIA-GONZÁLEZ, J., MIRAVITLLES, C. (Univ. Barcelona, Dept. Crystall. and Miner., Barcelona, Spain): Thermal behaviour of $[\text{CoCO}_3(\text{NH}_3)_4\text{H}]_2 \cdot \text{H}_2\text{SO}_4 \cdot 3\text{H}_2\text{O}$. *J. Thermal Anal.* 3 (1971) 169
- ANATYCHUK, L. I., GNATYUK, A. M. (Chernovtsy State Univ., Chernovtsy, UkrSSR): Electric and thermographic investigation of CdSb. *Izv. Akad. Nauk SSSR, Neorg. Mater.* 8 (1972) 44 (In Russian)
- ANDERSON, A. T., CLAYTON, R. N., MAYEDA, T. K. (Univ. Chicago, Dept. Geophys. Sci., Chicago, Ill., 60637 USA): Oxygen isotope thermometry of mafic igneous rocks. *J. Geol.* 79 (1971) 715
- ANDERSON, D. J., GILCHRIST, T. L., GYMER, G. E., REES, C. W. (c/o Rees, C. W., Univ. Liverpool, Robert Robinson Labs., Liverpool 69, Lancs., England): Forma-

- tion of 2H-azirines by the pyrolysis of 1,2,3-triazoles. *J. Chem. Soc. D* 8 (1971) 1518
- ANDERSON, P. W., HALPERIN, B. I., VARMA, C. M. (Bell Labs., Murray Hill, N. J., 07974 USA): Anomalous low-temperature thermal properties of glasses and spin glasses. *Phil. Mag.* 25 (1972) 1
- ANDREEV, B. Y., VESNOVSKII, B. P. (N. I. Lobachevskii Univ., Chem. Inst., Gorki, USSR): Thermal decomposition of cadmium mesotartrate and malate. *Zh. Org. Khim.* 7 (1971) 1867 (In Russian)
- ANDREWS, M. V., SHAFFER, J., MC CAIN, D. C. (Univ. California, Dept. Chem., Santa Barbara, Calif., 93106 USA): The N-I bond strength: Thermochemistry of NH_3NI_3 . *J. Inorg. Nucl. Chem.* 33 (1971) 3945
- AOKI, K., YAJIMA, S. (Tohoku Univ., Res. Inst. Iron Steel and Other Met., Sendai, Japan): High temperature resistivity of pyrolytic graphite bromine residual compounds. *J. Mater. Sci.* 6 (1971) 1338
- APPLETON, Q., BERNANDER, L., OLOFSSON, G. (c/o Olofsson, G., Univ. Lund, Chem. Ctr., Thermochem. Lab., Lund S-222 07, Sweden): A calorimetric and PMR study of protonation reaction in an inert solvent. The interaction between some weak organic bases and $\text{HCl}-\text{SbCl}_3$ in 1,2-dichloroethane solution. *Tetrahedron* 27 (1971) 5921
- APUKHTINA, N. P., TEITELBAUM, B. YA., CHERKASOVA, L. A., YAGFAROVA, T. A., PALIKHOV, N. A. (A. E. Arbuzov Org. and Phys. Chem. Inst., Moscow, USSR): Thermomechanical properties and phase state of some polyurethane thermoplastic elastomers based on poly(butylene adipinate). *Vysokomol. Soedin. Ser. A* 13 (1971) 2481 (In Russian)
- ARATS, S., ANDERSON, E. E.: Thermoelectric power of antiferromagnetic chromium-iron alloys. *Physica* 54 (1971) 617
- ARNOLD, D. R., CHANG, Y. C. (Univ. Western Ontario, Dept. Chem., London 72, Ont., Canada): Photochemical and thermal reactions of 1-carbomethoxy-4-phenyl 2,2,3,3-tetramethyl-5-oxabicyclo [2.1.0] pentane(Ia). Characteristic of the carbonyl ylide. *J. Heterocycl. Chem.* 8 (1971) 1097
- ASHCROFT, S. J. (Univ. Exeter, Dept. Chem. Engn., Exeter EX4 4QF, England): The thermochemistry of complexes of N-substituted thioureas with cobalt(II) and nickel(II) chlorides. *J. Chem. Thermodyn.* 3 (1971) 853
- ASTAF'EV, A. S., AGALARZADE, P. S., GRISHAEVA, N. I., CHERNTSOV, S. M., IZIDINOV, S. O.: Investigation of the interface between a semiconductor and a low-temperature dielectric (SiO_2 , 300°C). *Sov. Phys.-Semicond. Engl. Transl.* 5 (1971) 1046
- BABCAN, J., KRISTIN, J. (Univ. Komensky, Geol. Inst., Bratislava, CSSR): Thermal properties of akaganeite ($\beta\text{-FeOOH}$). *J. Thermal Anal.* 3 (1971) 307
- BADIE, J.-M. (CNRS, Lab. Ultra-Réfractaires, Odeillo 66, France): Étude à haute température de la transformation H-X des sesquioxides de terbium et de dysprosium. *Compt. Rend. Ser. C* 273 (1971) 932
- BALASUNDARAM, L. J., SINHA, A. N. (Natl. Met. Lab., Jamshedpur, India): Thermal expansion of lead-tin and lead-cadmium alloys. *J. Appl. Phys.* 42 (1971) 5207
- BALDWIN, J. E., BROWN, J. E. (Massachusetts Inst. Technol., Chem. Dept., Cambridge, Mass., 02139 USA): Formation of sulfones in the thermal decomposition of ylides derived from p-toluenesulfonylhydrazides. *J. Org. Chem.* 36 (1971) 3642
- BALE, C. W., TOGURI, J. M. (Univ. Toronto, Dept. Metall. and Mat. Sci., Toronto, Canada): A thermogravimetric technique for continuous quantitative sulphur analysis at elevated temperatures. *J. Thermal Anal.* 3 (1971) 153
- BANERJEE, R., VARSHNI, Y. P. (Univ. Ottawa, Dept. Phys., Ottawa, Ont., Canada): Thermodynamic properties of cuprous chloride. *Solid State Commun.* 9 (1971) 2115
- BARADEL, P., VERMANDÉ, A., ANSARA, I., DESRÉ, P. (CNRS, École Natl. Super. Electrochim., St. Martin 38, France): Étude thermodynamique des alliages liquides lithium-étain. *Rev. Inst. Hautes Temp. Réfract.* 8 (1971) 201
- BARBANEL, V. I., BOGOMOLOV, V. N., BUDARINA, S. I.: Thermal defects in TiO_2 partially reduced in hydrogen. *Sov. Phys.-Solid State Engl. Transl.* 13 (1971) 1050
- BAROODY, E. E., CARPENTER, G. A. (USN, Appl. Sci. Dept., Indian Head, Maryland,

- 20640 USA): Enthalpy of formation of bis(2-fluoro-2,2-dinitroethyl)amine. *J. Chem. Eng. Data* 16 (1971) 452
- BARROETA, N., MACCOLL, A. (c/o MacColl, A., Univ. Coll. London, Dept. Chem., London, England): Pyrolysis of thio- and isothiocyanates. II. Ethylthiocyanate. *J. Am. Chem. Soc.* 93 (1971) 5787
- BARRON, T. H. K., GIBBON, T. G., MUNN, R. W. (Univ. Bristol, Dept. Theoret. Chem., Bristol BS8 1TS, England): Thermodynamics of internal strain in perfect crystals. *J. Phys. C-Solid State Phys.* 4 (1971) 2805
- BASETT, J., GRZESKOWIAK, R., O' LEARY, B. L. (Thames Polytech., Dept. Chem., London S. E. 18, England): Thermal analysis of nickel(II) complexes with some N-monosubstituted ethylenediamines. *J. Thermal Anal.* 3 (1971) 143
- BASSELIER, J. J., LE ROUX, J. P. (Fac. Sci. Paris, ESPCI, 75-Paris 5^e, France): Réarrangements thermiques et photochimiques des photoxydes de tétraphényl-2,3,4,5 cyclopentadiènes-2,4. Influence des substituants méthéniques. *Bull. Soc. Chim. Fr. B* (1971) 4448
- BAUER, G., KAHLERT, H. (Ludwig Boltzmann Inst., Festkörperphysik, Vienna A-1090, Austria): Low-temperature non-ohmic galvanomagnetic effects in degenerate n-type in As. *Phys. Rev. B-Solid State* 5 (1972) 566
- BAUR, H. (Bad. Anilin Fabrik und Soda-fabrik AG, Mess. Lab., Ludwigshafen, GFR): Bemerkungen zur Wärmeleitfähigkeit und Visko-Elastizität von Polymer-Festkörpern. *Kolloid. Z. Z. Polymere* 247 (1971) 753
- BEACH, A. D. (Atom Weap Res. Estab., Reading, Berks., England): A new optical system for quantitative thermographs. *J. Phys. E-Sci. Instr.* 4 (1971) 1025
- BEECH, G. (Polytech., Dept. Phys. Sci., Wolverhampton, WV1 1LY, England): The thermochemistry of some 2,3- and 4-cyanopyridine complexes of transition-metal halides. *Thermochim. Acta* 3 (1972) 297
- BELORUKOVA, L. P., EFIMOV, A. I.: The formation enthalpies of coordination compounds of chloride scandium with chlorides of alkaline metals. *Vestn. Leningrad Univ. Fiz. Khim.* (1971) 83 (In Russian)
- BELOV, K. P., IVANOVSKY, V. I., TALALAEVA, E. V., CHERNIKOVA, L. A. (Moscow Univ., Gen. Phys. Biologists Dept., Moscow, USSR): On the anisotropy of magneto calorimetric effect in hexagonal ferrite Zn_2Y . *Vestn. Mosk. Univ. Fiz. Astron.* 12 (1971) 615 (In Russian)
- BELYAEV, E. K., ANNOPOLSKII, V. F. (Rostov Don Univ., Gen. and Inorg. Chem. Inst., Rostov Don. USSR): Derivatographic method for studying the conditions and kinetics of titanate formations in carbonate, nitrate and sodium hydroxide mixtures with titanium dioxide. *Zh. Neorg. Khim.* 16 (1971) 3254 (In Russian)
- BENLIAN, D., HERNANDORENA, G. (École Natl. Super. Chim. Paris, Lab. Chim. Appl., Paris 5^e, France): Étude infrarouge de la rupture thermique de la liaison Co-coordonat de méthylcobaloximes en phase solide. *Compt. Rend. Ser. C* 273 (1971) 1277
- BENSON, M. S., SNYDER, P. S., WINNICK, J. (Univ. Missouri, Dept. Chem. Engn., Columbia, Miss., 65201 USA): Heat capacities of liquid n-alkanes at elevated pressures. *J. Chem. Thermodyn.* 3 (1971) 891
- BERÉNYI, M., LIPTAY, G. (Semmelweis Med. Univ., Urological Clinic, Budapest 8, Hungary): The use of thermal analysis in medical science with special reference to nephroliths. *J. Thermal Anal.* 3 (1971) 437
- BERGER, A. S., SAMSONOVA, T. I., YAKOVLEV, L. K. (Acad. Sci. USSR, Inst. Phys. Chem. Bases Proc. RAW., Novosibirsk, USSR): On thermal decomposition of cation exchange forms of zeolite A. *Izv. Akad. Nauk SSSR, Ser. Khim.* (1971) 2129 (In Russian)
- BERGER, L. I., KOTINA, E. G. (All Union Chem. Reagents and Very Pure Chem., Moscow, USSR): A thermographic appraisal of the Cu_2SnSe_3 melting heat and entropy. *Izv. Akad. Nauk SSSR, Neorg. Mater.* 7 (1971) 2083 (In Russian)
- BERGMAN, C., BROS, J.-P., CARBONEL, M., GAMBINO, M., LAFFITTE, M. (CNRS, Ctr. Rech. Microcalorimetrie and Thermo-chim., 13-Marseille 3^e, France): Propriétés thermodynamiques des alliages binaires or-gallium. *Rev. Int. Hautes Temp. Réfract.* 8 (1971) 205
- BERUL, S. I., LAZAREV, V. B., SALOV, A. V. (N. S. Kurnakov Gen. and Inorg. Chem.

- Inst., Moscow, USSR): Thermography of structural diagrams of the $\text{Me}_2\text{X}-\text{Sb}_2\text{X}_3$ systems. *Zh. Neorg. Khim.* 16 (1971) 3363 (In Russian)
- BIHARI-VARGA, M. (Semmelweis Med. Univ., 3rd Dept. Med., Budapest 8, Hungary): Thermoanalytical characterization of the stability of crosslinked proteins. *Acta Biochim. Biophys.* 6 (1971) 265
- BIHARI-VARGA, M. (Semmelweis Med. Univ., 3rd Dept. Med., Budapest 8, Hungary): Thermoanalytical assay of glycoaminoglycans. *Acta Biochim. Biophys.* 6 (1971) 271
- BIRD, B. L., PEARLMAN, N. (USN, Ship. Res. and Dev. Ctr., Annapolis, Maryland, 21402 USA): Thermal conductivity of *n*-type germanium from 0.3 to 4.2 K. *Phys. Rev. B-Solid State* 4 (1971) 4406
- BIRYUK, L. I., GOROSHCHENKO, YA. G., KHANDROS, E. L., KALINICHENKO, A. M. (Acad. Sci. UkrSSR, Gen. and Inorg. Chem. Inst., Kiev, UkrSSR): Changes in composition and structure of titanium hydroxide in dependence on heating. *Ukr. Khim. Zh.* 37 (1971) 1221 (In Russian)
- BLACHNIK, R., KLUGE, W. (Techn. Univ., Anorg. Chem. Inst., Clausthal-Zellerfeld, GFR): Chemical bonding in melts of A(IV) B(VI) compounds. *Thermochim. Acta* 3 (1972) 317
- BLACHNIK, R., SCHNEIDER, A. (Techn. Univ., Anorg. Chem. Inst., Clausthal-Zellerfeld, GFR): Schmelzenthalpien von Seltenen Erdhalogenid-Alkalihalogenid-Verbindungen. *Monatsch. Chem.* 102 (1971) 1337
- BOGANOV, A. G., POPOV, S. A., RUDENKO, V. S. (I. V. Grebenshchikov Silicate Chem. Inst., Leningrad, USSR): Position of quartz melting curve on (p, T)-diagram of SiO_2 . *Dokl. Akad. Nauk SSSR* 201 (1971) 1099 (In Russian)
- BOUDJOUK, P., WEST, R. (c/o West, R., Univ. Wisconsin, Dept. Chem., Madison, Wisconsin, 53706 USA): A novel thermal rearrangement of tris(organosilyl)hydroxylamines. *J. Am. Chem. Soc.* 93 (1971) 5901
- BOUREAU, G., GERDANIAN, P. (Univ. Paris-Sud, Ctr. Orsay, Lab. Comp. non Stoechiométriques, 91-Orsay, France): Mesure directe à 1300°C de l'enthalpie molaire partielle de mélange de l'oxygène dans la zircone sous-stoechiométrique. *Compt. Rend. Ser. C* 273 (1971) 1034
- BOURGEOIS, Y., JASSE, B. (École Super. Phys. and Chim., CNRS, Paris 5^e, France): Étude par analyse thermique différentielle des interactions polymère solvant dans un plastisol à base de chlorure de polyvinyle. *Compt. Rend. Ser. C* 273 (1971) 1152
- BOUTARD, M., PINARD, P. (Inst. Nat. Sci. Appl., Lab. Phys. and Mat., 69-Villeurbanne, France): Bilan thermique d'un four vide comportant un certain nombre d'écrans. *J. Thermal Anal.* 3 (1971) 191
- BROWN, H. A., PENSKE, E. C., CALLAHAN, J. J. (Phys. Chem. Dept., Chem. Res. Lab., Res. Lab., Edgewood Arsenal, Maryland, 21010 USA): An apparatus for high pressure thermogravimetry. *Thermochim. Acta* 3 (1972) 271
- BROWN, R. F. C., BUTCHER, M. (Monash Univ., Dept. Chem., Clayton, Victoria 3168, Australia): The pyrolysis of polycarbonyl compounds. VI. The pyrolytic decarbonylation of methyl 2-oxocyclopentane-1-glyoxylate and 1-oxoindane-2-glyoxylate. *Aust. J. Chem.* 24 (1971) 2421
- BROWN, R. F. C., BUTCHER, M. (Monash Univ., Dept. Chem., Clayton, Victoria, 3168, Australia): The pyrolysis of oxindoles at 850°C. *Aust. J. Chem.* 25 (1972) 149
- BRYAN, A. M., OLAFSSON, P. G. (State Univ. New York at Albany, Albany, N. Y., 12203 USA): Thermal studies on the polymerization of a uridine-uridine-3'-(2')-phosphate mixture. *J. Thermal Anal.* 3 (1971) 421
- BUGE, E. (Zementkombinat-Karsdorf, GDR): Thermometrische Bestimmung geringer SO_3 -Gehalte in Salzsäurelöslichen Zementen mit dem Schnellanalysengerät "Directhermom". *MOM Rev. No. 3* (1971) 23
- BUSHMIN, A. P., SHAMKOV, V. M., TERESHCHENKO, V. V., KALYZHNII, N. A., FEDOTOV, YU. I., TARASOV, YU. A.: Thermoelectric investigation of the kinetics of aging in Al-Mg-Zn alloys. *Ind. Lab. Engl. Transl.* 37 (1971) 898
- CALLAERTS, R., DENAYER, M., HASHMI, F. H., NAGELS, P. (Rijks Univ. Ctr. Antwerpen, Belgium): Hall effect, thermoelectric power and electrical conductivity measurements in vitreous CdGe_xAs_2 . *Discuss. Faraday Soc.* (1971) 27
- CALLAWAY, J. (Louisiana State Univ., Dept.

- Phys. Astron., Baton Rouge, Louisiana, 70803 USA): High-temperature entropy and specific heat of interacting electrons in a solid. *Phys. Rev. B-Solid State* 4 (1971) 106
- CAMERON, G. G., DAVIE, F. (Univ. Aberdeen, Dept. Chem., Old Aberdeen, AB9 2UE, Scotland): The thermal degradation of poly(methyl acrylate). V. Relative rates of crosslinking and chain scission. *Makromol. Chem.* 149 (1971) 169
- CAMERON, G. G., DAVIE, F. (Univ. Aberdeen, Dept. Chem., Old Aberdeen, AB9 2UE, Scotland): The thermal degradation of poly(methyl acrylate). VI. Crosslink formation by 1,4-diaminoantraquinone. *Makromol. Chem.* 151 (1972) 289
- CARSON, A. S., LAYE, P. G., STEELE, W. V., JOHNSTON, D. E., MCKERVEY, M. A. (Univ. Leeds, Dept. Phys. Chem., Leeds LS2 9JT, England): The enthalpy of formation of diamantane. *J. Chem. Thermodyn.* 3 (1971) 915
- CHAMBERS, R. D., MACBRIDE, J. A. H., MUSGRAVE, W. K. R. (Univ. Durham, Dept. Chem., Durham, England): Polyfluoroheterocyclic compounds. XXI. Thermal rearrangement of perfluoropyridazine and perfluoroalkylpyridazines to pyrimidines. *J. Chem. Soc. C* (1971) 3384
- CHANG, S. S., BESTUL, A. B. (NBS, Inst. Mat. Res., Washington, D. C., 20234 USA): Heat capacity and thermodynamic properties of o-terphenyl crystal, glass, and liquid. *J. Chem. Phys.* 56 (1972) 503
- CHAPMAN, G. M., AKEHURST, E. E., WRIGHT, W. B. (Mars Ltd., Res. Lab., Slough Bucks., England): Cocoa butter and confectionary fats. Studies using programmed temperature X-ray diffraction and differential scanning calorimetry. *Journal of the American Oil Chemists' Society* 48 (1971) 824
- CHEKHOVSKOI, V. YA., PETROV, V. A., PETROVA, I. I., LYUKSHIN, E. N.: Thermal conductivity of pyrographite at high temperatures. *High Temp. USSR, Engl. Transl.* 9 (1971) 66
- CHELL, G. G. (CERL, Mat. Div., Leatherhead, Surrey, England): The free energy of cubic crystals at finite temperatures. *J. Phys. C-Solid State Phys.* 4 (1971) 2759
- CHESHKO, F. F. (V. I. Lenin Polytech. Inst., Harkov, UkrSSR): Heat capacity of 1,3-cyclohexadiene. *Zh. Fiz. Khim.* 45 (1971) 2942 (In Russian)
- CHESNOKOV, V. I., KAGRAMANOV, N. D., PANKRATOV, A. V., ZERCHENINOV, A. N., ZHDANOVA, N. N.: Standard enthalpy of formation of nitrosyl fluoride. *Zh. Fiz. Khim.* 45 (1971) 2943 (In Russian)
- CHKALOVA, V. V., BONDARENKO, V. S., FOKINA, G. D., STRIZHEVSKAYA, F. N.: Temperature studies of dielectric, piezoelectric and elastic properties of lithium niobate monocrystals. *Izv. Akad. Nauk SSSR, Ser. Khim.* 35 (1971) 1886 (In Russian)
- CHRISTENSEN, J. J., RUCKMAN, J., EATOUGH, D. J., IZATT, R. M. (Brigham Young Univ., Dept. Chem. Eng. and Center Thermochem. Stud., Provo, Utah, 84601 USA): Determination of equilibrium constants by titration calorimetry. I. Introduction to titration calorimetry. *Thermochim. Acta* 3 (1972) 203
- CIFERRI, A., BIANCHI, E., MARCHESE, F., TEALDI, A. (Univ. Genua, Inst., Chim. Ind., Genua, Italy): Differential scanning calorimetry of poly(caproamide) inorganic salt systems. *Makromol. Chem.* 150 (1971) 265
- CINI, L., MELANDRI, L. (Univ. Bologna, Fac. Engn., Italy): Formation of the solid solution CdS/CdSe from CdS and Se and its thermal stability. A thermogravimetric investigation. *J. Thermal Anal.* 3 (1971) 131
- CISMARU, D., SEGAL, E., FĂTU, S. (Ministry Educ., Ctr. Phys. Chem., Bucharest, Roumania): Study on the chemisorptive properties of thin metallic layers by means of electrical resistance and thermoelectric power variation. I. Silver—oxygen system. *Rev. Roum. Chim.* 16 (1971) 1655
- CISMARU, D., SEGAL, E., FĂTU, S. (Ministry Educ., Ctr. Phys. Chem., Bucharest, Roumania): Study on the chemisorptive properties of thin metallic layers by means of electrical resistance and thermoelectric power variation. III. Copper-carbon monoxide system. *Rev. Roum. Chim.* 16 (1971) 1683
- CLIFF, G. R., JONES, G., STANYER, J. (c/o Jones, G., Univ. Keele, Dept. Chem., Keele, Staffs., ST 5 5BG, England): Azonia-azulene salts. IV. Attempts to convert

- dihydroindolizines into azonia-azulenes. *J. Chem. Soc. C* (1971) 3426
- COCKS, A. T., EGGER, K. W. (c/o Egger, K. W., Monsanto Res. SA, Zürich CH-8050, Switzerland): Reaction of group III metal alkyls in the gas phase. VII. The thermal unimolecular decomposition of tri-isobutylboron. *J. Chem. Soc. A* (1971) 3606
- COEURÉ, P., GAY, J. C., CARCEY, J.: Thermomagnetic properties of fine-grain polycrystalline GdIG. *IEEE Trans. Magn. MAG-7* (1971) 397
- COLE, W. F., LANCUCKI, C. J., POWELL, D. A. (CSIRO, Div. Bldg. Res., Graham Road, Highett, Victoria, 3190, Australia): On the characterization of ceramic clays. *Clay Minerals* 9 (1971) 35
- CONAN, A., GOUREAUX, G., ZOATER, M. (Univ. Nantes, Inst. Phys., B. P. 1044, Nantes, France): Nouvelle méthode de mesure rapide du pouvoir thermoélectrique aux très basses températures de petits échantillons. Application au cobalt monocristallin. *Rev. Phys. Appl.* 6 (1971) 383
- CORDES, H., DOST, L., CAMMENGA, H. K. (Tech. Univ. Brunswick, Inst. Phys. Chem., Brunswick, GFR): Thermodynamische Eigenschaften von Metalldämpfen. II. Quecksilber. *Z. Metallk.* 62 (1971) 915
- CORDFUNKE, E. H. P., OUWELTJES, W. (Reactor Cent. Netherlands, Petten, Netherlands): Heats of formation of Ag_3PO_4 and Ag_3AsO_4 : a re-evaluation. *Rec. Trav. Chim.-J. Royal Neth. Chem.* 90 (1971) 1343
- CORDOBA, G., BROOKS, C. R. (Univ. Panama, Panama City, Panama): The heat capacity of lead from 300 to 850°C: Experimental data. *Phys. Status Solidi A-Appl. Res.* 7 (1971) 503
- CORNEJO, J., CRIADO, J. M., TRILLO, J. M. (Univ. Sevilla, Fac. Ciencias, Dept. Quim. Inorg., Sevilla, Spain): Decomposition termica de formiatos de los metales 3d: Su relacion con la actividad catalitica de los oxidos de dichos elementos en la reaccion de decomposicion del acido formico. *An. Quim.* 67 (1971) 967
- CRAIG, N. C., JONAH, C. D., LEMLEY, J. T., STEINMETZ, W. E. (Oberlin Coll., Dept. Chem., Oberlin, Ohio, 44074 USA): Pyrolysis of 1,1,3,3-tetrafluoroacetone. *J. Org. Chem.* 36 (1971) 3572
- CRUCEANU, M., BIRÓ, Cs. A. (Univ. "Al. I. Cuza", Dept. Chem. Techn., Jassy, Romania): Thermogravimetry of molecular sieves. *J. Thermal Anal.* 3 (1971) 289
- CsÚRÖS, Z., SOÓS, R., PETNEHÁZY, I., PARLAGH, G. (Tech. Univ. Budapest, Dept. Org. Chem. Technol., Budapest 11, Hungary): Thermal decomposition of tolylene-2,4 and 2,6-dicarbamid acide chloride. *Period. Polytech. Chem.* 15 (1971) 195
- CUTLER, M. (Oregon State Univ., Dept. Phys., Corvallis, Oregon, 97331 USA): The thermoelectric behaviour of disordered systems. *Phil. Mag.* 25 (1972) 173
- DALY, N. J., ZIOLKOWSKI, F. (Univ. London, Dept. Chem., London EC 1, England): The thermal decompositions of carbamates. I. Ethyl *N*-methyl-*N*-phenylcarbamate. *Austr. J. Chem.* 24 (1971) 2541
- DAVID, D. J. (Columbia Sci. Ind., Anal. and Ind. Div., Austin, Texas, 78702 USA): Simultaneous photothermal and differential thermal analysis. *Thermochim. Acta* 3 (1972) 277
- DAVID, D. J. (Columbia Sci. Ind., Anal. and Ind. Div., Austin, Texas, 78702 USA): Performance of a new differential scanning calorimeter cell. *J. Thermal Anal.* 3 (1971) 247
- DAVIS, H. H., GRAHAM, H. C., KVERNES, I. A. (Aerospace Res. Labs., Wright-P AFB, Ohio, USA): Oxidation behaviour of Ni-Cr-ThO₂ alloys at 1000 and 1200°C. *Oxidat. Metal.* 3 (1971) 431
- DEIMEL, P. (Österreich. Hsch., Atom Inst., Vienna, Austria): Temperatur- und Magnetfeldabhängigkeit der Sammelausbeute eines Siliziumoberflächensperrschichtzählers. *Phys. Status Solidi A-Appl. Res.* 9 (1972) K 15
- DÉPORTES, C., GAUTHIER, M. (Univ. Grenoble, UER, Chim. and Physicochim. Mat., 38-St.-Martin, France): Nouvelle méthode de détermination du nombre de transport cationique dans les oxydes solides, par dilatométrie sous courant continu. Application à l'oxyde de magnésium. *Compt. Rend. Ser. C* 273 (1971) 1605
- DIAGILEVA, L. M., ANDREEV, B. J., FEKLISON, G. I.: Thermal decomposition of ferrocene and its derivatives. *Dokl. Akad. Nauk. SSSR* 200 (1971) 1110 (In Russian)

- DICKENS, D., FREY, H. M., METCALFE, J. (Reading Univ., Chem. Dept., White-knights Park, Reading, Berks., England): Thermal isomerization of cyclobutenes. 18. 1-chlorocyclobutene and 1-bromocyclobutene. *Trans. Faraday Soc.* 67 (1971) 2328
- DITMARS, D. A., DOUGLAS, T. B. (NBS, Inst. Mat. Res., Washington, D. C., 20234 USA): Measurement of the relative enthalpy of pure α -Al₂O₃ (NBS heat capacity and enthalpy standard reference material No. 720) from 273 to 1173 K. *J. Res. Natl. Bur. Stand. A, Phys. Chem.* 75 A (1971) 401
- DOERING, K. (VEB Jenaer Glaswerk Schott and Gen., Jena, GDR): Thermometrische Kaliumbestimmung mit Analysengerät "Dirathermom". *MOM Rev. No. 3* (1971) 40
- DORI, A., KOISHI, T., KATO, C. (Okayama Univ., Sci., Dept. Appl. Chem., Shuku, Okayama, Japan): Influence of atmosphere for thermal decomposition process of managanous carbonate. *J. Chem. Soc. Jap. Ind.* 74 (1971) 2577
- DOLLIMORE, D., TINSLEY, D. (Univ. Salford, Dept. Chem. and Appl. Chem., Salford, Lancs., England): The thermal decomposition of oxalates. XII. The thermal decomposition of lithium oxalate. *J. Chem. Soc. A* (1971) 3043
- DONNET, J.-B., FURSTENBERGER, R., MESSIET, J. (Ctr. Rech. Phys. Chim., CNRS, 68-Mulhouse, France): Mécanisme et cinétique de la thermolyse de l'azodiisobutyronitrile en présence d'oxygène. I. Formation d'acide cyanhydrique. *J. Chim. Phys. Phys.-Chim. Biol.* 68 (1971) 1630
- DONNET, J.-B., FURSTENBERGER, R. (Ctr. Rech. Phys. Chim., CNRS, 68-Mulhouse, France): Thermolyse de l'azodiisobutyronitrile en présence d'oxygène. II. Fixation d'acide cyanhydrique sur les noirs de carbone. *J. Chim. Phys. Phys.-Chim. Biol.* 68 (1971) 1638
- DORAN, J. C., ERICH, U., WOLF, W. P. (Univ. Utah, Dept. Phys., Salt Lake City, Utah, 84112 USA): Na₃ Ce(C₇H₃NO₄)₃ · 15H₂O: A new material for millikelvin thermometry. *Phys. Rev. Lett.* 28 (1972) 103
- DOSTÁL, K., MEZNÍK, L. (Purkyně Univ., Inst. Anorg. Chem., Brno, Czechoslovakia): Thermische Kondensationen von Monoamidophosphaten und Hydrogenamidophosphaten. *Collect. Czech. Chem. Commun.* 36 (1971) 3834
- DRESNER, J., COMIZZOLI, R. B. (RCA Labs., Princeton, N. J. 08540 USA): A thermo-electrophotographic device. *Photogr. Sci. Engr.* 16 (1972) 43
- DUBOV, YU. S., MOGYTNOV, B. M. (I. P. Bardin Ferrous Met. Inst., Moscow, USSR): On temperature of beginning of carbon redistribution processes in martensite. *Fiz. Metal. Metalloved.* 32 (1971) 1319 (In Russian)
- DUPUIS, T. (Univ. Poitiers, Lab. Péd., Poitiers, France): Caractérisation par analyse thermique différentielle des complexes de l'aluminium avec les acides fulviques et humiques. *J. Thermal Anal.* 3 (1971) 281
- EATOUGH, D. J. (Brigham Young Univ., Center Thermochem. Stud., Provo, Utah, 84601 USA): Determination of the thermal conductivity of liquids in a constant temperature environment calorimeter. *Thermochim. Acta* 3 (1972) 333
- EATOUGH, D. J., CHRISTENSEN, J. J., IZATT, R. M. (Brigham Young Univ., Dept. Chem. Eng. Chem. Center Thermochem. Stud., Provo, Utah, 84601 USA): Determination of equilibrium constants by titration calorimetry. II. Data reduction and calculation techniques. *Thermochim. Acta* 3 (1972) 219
- EATOUGH, D. J., IZATT, R. M., CHRISTENSEN, J. J. (Brigham Young Univ., Dept. Chem. Eng. Chem. Center Thermochem. Stud., Provo, Utah, 84601 USA): Determination of equilibrium constants by titration calorimetry. III. Application of method to several chemical systems. *Thermochim. Acta* 3 (1972) 233
- EATOUGH, D. J., VAN HECKE, G. R. (Brigham Young Univ., Dept. Chem. Eng. Chem. Center Thermochem. Stud., Provo, Utah, 84601 USA): A calorimetric study of the relative donor strength of benzene, toluene and the xylenes. *Thermochim. Acta* 3 (1972) 165
- EBEL, H., LIHL, F., KNOGLINGER, H., EBEL, M. (Tech. Hochsch. Vienna, Inst. Angew. Phys., Vienna A-1040, Austria): Präzisionsmessungen mit einer Hochtem-

- peraturkammer für Röntgendiffraktometer bis 2100°C. *Z. Angew. Phys.* 32 (1971) 291
- EDELSTEIN, A., CULBERT, H. (Univ. Illinois, Argonne, Ill., 60439 USA): Specific heat measurements on superconducting Ce-La alloys. *Physica* 55 (1971) 592
- ELLIOTT, R. J., WOOD, C. (Oxford Univ., Theoret. Phys. Dept., Oxford, England): The Ising model with a transverse field. I. High temperature expansion. *J. Phys. C-Solid State Phys.* 4 (1971) 2359
- EREZHPOV, M.: Effects of the fields of ionized impurities on the thermoelectric and thermomagnetic phenomena in semiconductors in weak magnetic fields. *Sov. Phys.-Semicond. Engl. Transl.* 5 (1971) 722
- ERIKSSON, G. (Univ. Umeå, Dept. Inorg., Umeå S901 87, Sweden): Thermodynamic studies of high temperature equilibria. III. SOLGAS, a computer program for calculating the composition and heat condition of an equilibrium mixture. *Acta Chem. Scand.* 25 (1971) 2651
- ERMOLAEV, B. I.: Heat conductivity of alloyed steels at 20–1000 degrees K. *Metalloved. Term. Obrab. Metal.* (1971) 51 (In Russian)
- ERMOLENKO, N. F., YATSEVSKAYA, M. I. (Acad. Sci. BeSSR, Gen. and Inorg. Chem. Inst., Minsk, BeSSR): Heat treatment effect on titanium silica gel absorption properties. *Dokl. Akad. Nauk BeSSR* 15 (1971) 1092 (In Russian)
- ESTRIN, E. I.: Hysteresis temperature dependence during phase transformations under pressure. *Sov. Phys.-Solid State Engl. Transl.* 13 (1971) 1259
- FAKIDOV, I. G., GRAZHDANKINA, N. P., ZAINULLINA, R. I., BURKHANOV, A. M., BERSENEV, Yu. S.: Low-temperature magnetic transition in Mn_3Ge_2 . *Sov. Phys.-Solid State Engl. Transl.* 13 (1971) 1181
- FARBER, M., SRIVASTAVA, R. D., UY, O. M. (Space Sci. Inc., Monrovia, Calif., 91016 USA): Mass spectrometric determination of the heat of formation of the AlO_2 molecule. *J. Chem. Phys.* 55 (1971) 4142
- FĂTU, S. (Ministry Educ., Ctr. Phys. Chem., Bucharest, Roumania): Study on the chemisorptive properties of thin metallic layers by means of electrical resistance and thermoelectric power variation. II. Copper-oxygen system. *Rev. Roum. Chim.* 16 (1971) 1673
- FAVA, J., LE FLEM, G., DEVALETTE, M., RABARDEL, L., COUTURES, J.-P., FOEX, M., HAGENMÜLLER, P. (CNRS, Univ. Bordeaux, Serv. Chim. Minér. Struct., 33-Talence, France): Mise au point d'un four de haute température. Application à l'étude des systèmes ThO_2 -SrO et ThO_2 -BaO. *Rev. Int. Hautes Temp. Réfract.* 8 (1971) 305
- FAY, B., SCHNEIDER, G. (c/o Schneider, G., Techn. Univ. Braunschweig, Techn. Phys., D-3300 Braunschweig, GFR): Anisotropie galvanometrischer und thermomagnetischer Effekte in verschiedenen dortiertem $Bi_{88}Sb_{12}$. *Z. Naturforsch. A* 26 (1971) 1459
- FIORY, A. T., SERIN, B. (Bell Tel. Labs., Murray Hill, N. J., 07974 USA): Thermo-magnetic properties of the mixed state. *Physica* 55 (1971) 73
- FISCHER, E. W., HINRICHSEN, G. (Univ. Mainz, Inst. Phys. Chem., Mainz 6500, GFR): Schmelz- und Rekristallisationsvorgänge bei Polyäthylen-Einkristallen. IV: Schmelzenthalpie und Grenzflächenergie von Polyäthylen-Einkristallen. *Kolloid Z. Z. Polymere* 247 (1971) 858
- FISCHER, W. A., JANKE, D. (Max-Planck-Inst. Eisenforsch., Düsseldorf, GFR): Die Freien Reaktionenthalpien der Auflösung von Sauerstoff in Kupfer-Nickel, Kupfer-Kobalt-, und Kupfer-Eisen-Schmelzen. *Z. Metallk.* 62 (1971) 747
- FISCHER, R. A., HORNING, E. W., BRODALE, G. E., GIAUQUE, W. F. (Univ. California, Dept. Chem., Berkeley, Calif., 94720 USA): Magnetothermodynamics of anti-ferromagnetic, ferroelectric β -Gd₂(MoO₄)₃. I. Heat capacity, entropy, magnetic moment of the electrically polarized form from 0.4 to 4.2°K with fields to 90 kG along the *c* crystal axis. *J. Chem. Phys.* 56 (1972) 193
- FISICHELLA, S., SCARLATA, G., TORRE, M. (Univ. Catania, Inst. Chim. Ind., Catania 95125, Italy): Standard heats and standard entropies of dyeing of some quinazolone azo dyes. *J. Soc. Dyers Colour.* 87 (1971) 348
- FLAHERTY, B., MCCUTCHEON, G. (Lab. Gov Chem., Res. Div., London S. E. 1, England): The thermal properties of som

- metal complexes of diethylthiocarbamic acid. *J. Thermal Anal.* 3 (1971) 75
- FLANK, W. H. (Air Products and Chem. Inc., Houdry Labor., Linwood, Pa., USA): On the achievement on uniform packing DTA samples. *J. Thermal Anal.* 3 (1971) 73
- FLETCHER, N. H. (Univ. New England, Dept. Phys., Armidale 2351, Australia): Specific heats of α -silver iodide. *J. Chem. Phys.* 55 (1971) 4681
- FLETCHER, R. A., PILCHER, G. (Univ. Manchester, Chem. Dept., Manchester 13, Lancs., England): Measurements of heats of combustion by flame calorimetry. 7. Chloromethane, chloroethane, 1-chloropropane, 2-chloropropane. *Trans. Faraday Soc.* 67 (1971) 3191
- FRANSE, J. J. M., SOROHAN, M. (Univ. Amsterdam, Natuurkundig Lab., Amsterdam, Netherlands): Pressure dependence of the magnetic anisotropy energy of nickel between 300 K and 4.2 K. *Solid State Commun.* 9 (1971) 2053
- FRAZIER, A. W., SCHEIB, R. M., LEHR, J. R. (Tennessee Valley Author, Div. Chem. Dev., Muscle Shoals, Alabama, 35660 USA): The system $K_2O - H_4P_2O_7 - H_2O$ at 0 and 25°C. *J. Agr. Food Chem.* 20 (1972) 146
- FRÉMONT-LAMOURANNE, R., MASSON, J., GUÉRIN, H. (Univ. Paris-Sud, Lab. Chim. Gaz and Combustibles, 91-Orsay, France): Influence de la nature du gaz vecteur sur divers types de réactions étudiées par thermogravimétrie. *Bull. Soc. Chim. Fr. A* (1971) 3829
- FRITZSCHE, H. (Univ. Chicago, Dept. Phys., Chicago, Ill., 60637 USA): A general expression for the thermoelectric power. *Solid State Commun.* 9 (1971) 1813
- FULDE, P., WAGNER, H. (Inst. Max von Laue Paul Langevin, 8046 Garching, GFR): Low-temperature specific heat and thermal conductivity of noncrystalline solids. *Phys. Rev. Lett.* 27 (1971) 1280
- GALKIN, N. P., TUMANOV, Y. N., KOROBTSEV, V. P., BATAREV, G. A., KHOKHLOV, V. A., PAVLOV, A. A.: Thermodynamics of niobium and tantalum fluorides at high temperatures. 1. Centafluorides. *Zh. Fiz. Khim.* 45 (1971) 2694 (In Russian)
- GALKIN, N. P., TUMANOV, Y. N., KOROBTSEV, V. P., BATAREV, G. A., KHOKHLOV, V. A., PAVLOV, A. A.: Thermodynamics of niobium and tantalum fluorides at high temperatures. 2. Tetrafluorides, trifluorides. *Zh. Fiz. Khim.* 45 (1971) 2695 (In Russian)
- GALKIN, N. P., TUMANOV, Y. N., KOROBTSEV, V. P., BATAREV, G. A., KHOKHLOV, V. A., PAVLOV, A. A.: Thermodynamics of niobium and tantalum fluorides at high temperatures. 3. Difluorides and monofluorides. *Zh. Fiz. Khim.* 45 (1971) 2695 (In Russian)
- GALLAGHER, P. K., JOHNSON, D. W. (Bell Telephone Labs., Inc., Murray Hill, N. J., 07974 USA): Rate of solvent loss from spherical droplets of solutions illustrated with aqueous manganese(II) nitrate. *Thermochim. Acta* 3 (1972) 303
- GALPERIN, L. N., KOLESOV, Y. R., GONTKOVSKAYA, V. T., OZERKOVSKAYA, N. I.: The effect of thermophysical parameters of investigated substance on thermokinetic measurements errors in Kalbe calorimeters. *Zh. Fiz. Khim.* 45 (1971) 2692 (In Russian)
- GANTEAUME, M., ROUQUEROL, J. (CNRS, Cent. Res. Microcal. et Thermochim., 13-Marseille, France): Etude cinétique d'une décomposition thermique par couplage de la calorimétrie et de l'analyse thermique à vitesses de décomposition constante. *J. Thermal Anal.* 3 (1971) 413
- GAVIGNET-TILLARD, A., HAMMAN, J. (CEN Saclay, Serv. Phys. Solide and Resonance, Gif-Sur-Yvette, France): Influence of order on the low temperature specific heat of $AuCu_3$. *Phys. Lett. A* 37 (1971) 93
- GIavarini, C., Pochetti, F. (Univ. Rome, Inst. Chim. Appl. and Ind., Rome, Italy): Application of some thermoanalytical techniques to study normal superphosphates. *Ann. Chim. Roma* 61 (1971) 682 (In Italian)
- GILCHRIST, T. L., GYMER, G. E., REES, C. W. (c/o Rees, C. W., Univ. Liverpool, Robert Robinson Labs., Liverpool L69 3Bx, England): Mechanism of the pyrolysis of 1,2,3-triazoles. 1. H-azirines as intermediates. *J. Chem. Soc. D* 8 (1971) 1519
- GINZBURG, D. M.: KOH and K_2CO_3 thermodynamic properties at high temperatures. *Zh. Fiz. Khim.* 45 (1971) 2937 (In Russian)

- GINZBURG, D. M., GUBA, N. I., KOCHKALDA, V. E.: Specific heat of K_2CO_3 , $K_2CO_3 \cdot 3/2 H_2O$ and KOH at high temperatures. *Zh. Fiz. Khim.* 45 (1971) 2939 (In Russian)
- GIPSTEIN, E., BARRAL II, E. M., BREDFELDT, K., NEED, O. U. (IBM, Res. Lab., San Jose, Calif., USA): Differential scanning calorimetric study of the transition heats of some dibenzazepines, carbazoles, and phenothiazines. *Thermochim. Acta* 3 (1972) 253
- GISBIER, J., KOCH, J. (Düngemittelkombinat, VEB Stickstoffwerk, Wittenberg, GDR): Zur Pyrolyse von Harnstoff in einem Tieftemperaturplasma. *Z. Chem.* 11 (1971) 465
- GLAZOV, V. I., NARYSHKIN, I. I. (M. I. Kalinin Polytech. Inst., Leningrad, USSR): Thermodynamic characteristics of the $KCl-SrCl_2$ system. *Zh. Prikl. Khim.* 44 (1971) 2322 (In Russian)
- GLAZOV, V. M., KULIEV, R. A., KRESTOVNIKOV, A. N. (Moscow Electr. Engn. Inst., Moscow, USSR): Entropies and melting heats of antimony chalcogenides. *Zh. Fiz. Khim.* 45 (1971) 2671 (In Russian)
- GOLDBERG, I. B. (Hebrew Univ., Racah Inst. Phys., Jerusalem, Israel): Magnetic contribution to the low temperature specific heat of V_3Si in the mixed superconducting state. *Solid State Commun.* 9 (1971) 2215
- GOLOVKIN, V. S., BYKOV, V. N., LEVDIK, V. A.: Change of the sign of temperature hysteresis of chromium magnetic structure. *Dokl. Akad. Nauk SSSR* 201 (1971) 1330 (In Russian)
- GÖMÖRY, I., ČECH, K. (Res. Inst. Cables and Insul. Mat., Bratislava, Czechoslovakia): A new method for measuring the induction period of the oxidation of polymers. *J. Thermal Anal.* 3 (1971) 57
- GORBUNOV, B. N., MYTOV, L. M., NAZAROV, A. A. (Volgograd Polytech. Inst., Volgograd, USSR): Thermogravimetric apparatus from standard units. *Ind. Lab. Engl. Transl.* 37 (1971) 800
- GORELKIN, O. S., MIKHAILIKOV, S. V. (Chelyabinsk Ferrous Met. Res. Inst., Chelyabinsk, USSR): Calorimetry of the Fe-V-Si system. *Zh. Fiz. Khim.* 45 (1971) 2682 (In Russian)
- GRADDON, D. P., HSU, C. Y. (Univ. New S. Wales, Sch. Chem., Kensington, N.S.W. 2033, Australia): Thermodynamics of metal-ligand bond formation. III. Adducts of heterocyclic bases with bis(*N*-nitroso-*N*-phenylhydroxylaminato)copper(II). *Aust. J. Chem.* 24 (1971) 2267
- GRASSIE, N., MCGUCHAN, R. (Univ. Glasgow, Chem. Dept., Glasgow, W. 2, Scotland): Pyrolysis of polyacrylonitrile and related polymers. IV. Thermal analysis of polyacrylonitrile in the presence of additives. *Eur. Polym. J.* 7 (1971) 1503
- GRIESSEN, R., LANDOLT, M., OTT, H. R. (ETH, Lab. Festkörper Phys., Zürich, Switzerland): A new antiferromagnetic phase in EuSe below 1.8 K. *Solid State Commun.* 9 (1971) 2219
- GROVER, R. (Univ. California, Lawrence Radiat. Lab., Livermore, Calif., 94550 USA): Thermal properties of alkali metals from static and dynamic compressibilities. *J. Phys. Chem. Solids* 32 (1971) 2539
- GUPTA, S. R., SINGH, H. (Solid State Phys. Lab., Delhi, India): Preparation of germanium-silicon thermo-electric elements by hot pressing. *Phys. Status Solidi A* 8 (1971) 267
- GUSEL'NIKOV, V. S., ZAITSEV, V. M., KOLYADIN, A. B., MISHIN, V. YA., SEROVA, V. A. (A. F. Ioffe Engn. Phys. Inst., Leningrad, USSR): The synthesis and study of thermal stability of cerium tellurates. *Izv. Akad. Nauk SSSR, Neorg. Mater.* 8 (1972) 122 (In Russian)
- GUTTMAN, C. M. (NBS, Inst. Mat. Res., Washington, D. C., 20234 USA): Low-temperature heat-capacity differences between glasses and their crystals. *J. Chem. Phys.* 56 (1972) 627
- HAIDA, D., SUGA, H., SEKI, S. (Osaka Univ., Fac. Sci., Lab. Chem. Thermodyn., Toyonaka 560, Osaka, Japan): Realization of the glassy state of some simple liquids by the vapor condensation method. *Thermochim. Acta* 3 (1972) 177
- HAGEMAN, H. J., WIERSUM, U. E. (Akzo Res. Labs., Corp. Res. Dept., Arnhem, Netherlands): Thermolysis of quinones. The flashvacuum thermolysis of p-benzoquinone. *Tetrahedron Lett.* (1971) 4329
- HAMILTON, J. D. (CSIRO, Div. Bldg. Res., Melbourne, Australia): Beidellitic mont-

- morillonite from Swansea. *Clay Minerals* 9 (1971) 107
- HAMPSON, P. J., GILLES, P. W. (Univ. Kansas, Dept. Chem., Lawrence, Kansas, 66044 USA): High-temperature vaporization and thermodynamics of the titanium oxides. VII. Mass spectrometry and dissociation energies of $TiO(g)$ and $TiO_2(g)$. *J. Chem. Phys.* 55 (1971) 3712
- HANSEN, L. D., KENNEY, D., LITCHMAN, W. M., LEWIS, E. A. (Univ. New Mexico, Albuquerque, New Mexico, 87106 USA): A thermometric titration experiment for analytical and physical chemistry. *J. Chem. Educ.* 48 (1971) 851
- HARA, K. (Kyoto Univ., Fac. Sci., Dept. Chem., Kyoto, Japan): High pressure and high temperature reactions in the organic solid state. Polymerization of nitriles. *Rev. Phys. Chem. Jap.* 40 (1970) 73
- HARA, K. (Kyoto Univ., Fac. Sci., Dept. Chem., Kyoto, Japan): Effects of pressure on the electrical properties of organic semiconductors. Pyrolyzed polyacrylonitrile and α,α -diphenyl- β -picrylhydrazyl. *Rev. Phys. Chem. Jap.* 40 (1970) 93
- HARDING, G. L., LANCHESTER, P. C., STREET, R. (Cavendish Lab., Cambridge, England): The low temperature magnetic thermal expansion of $CuCl_2 \cdot 2H_2O$. *J. Phys. C-Solid State* 4 (1971) 2923
- HARMELIN, M., DUVAL, C., DAT XUONG, N. (CNRS, ENSCP, 75-Paris 5^e, France): Identification par analyse thermique différentielle et par thermogravimétrie d'amino-acides aliphatiques saturés. *Compt. Rend. Ser. C* 273 (1971) 1077
- HATTA, I., IKUSHIMA, A. (Tokyo Inst. Technol., Fac. Sci., Meguro-ku, Tokyo 152, Japan): Specific heat of $NaNO_2$ near the antiferroelectric transition point. *Phys. Lett. A* 37A (1971) 207
- HATTERER, A., FISCHER, F., FORISSIER, M. (CNRS, Lab. CMA, 68-Moulhouse 02, France): Thermogravimétrie pseudo-différentielle par transfert en système isolé. *Chim. Anal.* 53 (1971) 710
- HAUDEK, H. (Siemens AG, Unternehmensbereich Bauelement, München, GFR): Die Änderung der thermischen Dehnung von magnetischen Oxidwerkstoffen beim Durchlaufen der Curietemperatur. I. Ferrite mit Spinellstruktur. *Z. Angew. Phys.* 32 (1971) 149
- HENSEN, B. J. (Geophys. Lab., Northwest Washington, D. C., 20008 USA): Theoretical phase relations involving cordierite and garnet in the system $MgO - FeO - Al_2O_3 - SiO_2$. *Contrib. Mineral. Petrol.* 33 (1971) 191
- HERWEIJER, A., FRIEDBERG, S. A. (Eindhoven Univ. Technol., Dept. Phys., Eindhoven, Netherlands): Low-temperature specific heat of $Ni(NO_3)_2 \cdot 6H_2O$. Antiferromagnetic interactions. *Phys. Rev. B* 4 (1971) 4009
- HICHTER, J.-M., VERMANDÉ, A., ANSARA, I., DESRÉ, P. (CNRS, École Natl. Super. Electrochim., 38-St.-Martin, France): Étude thermodynamique des alliages liquides aluminium-lithium. *Rev. Inst. Hautes Temp. Réfract.* 8 (1971) 197
- HINRICHSEN, G. (Farbenfabriken Bayer AG, Wiss. Lab. Werkes Dormagen, Dormagen, GFR): Untersuchungen zum Schmelzen von Polyacrylnitril. *Angew. Makromol. Chem.* 20 (1971) 121
- HISAR, R. S. (Univ. Tech. Istanbul, Fac. Chem., Lab. Chim. Anal., Istanbul, Turkey): Étude de l'influence de la nature des sels d'ammonium sur la préparation thermique des métaphosphates. *Bull. Soc. Chim. Fr. A* (1971) 3885
- HOFFMANN, R., KNAPPE, W. (Deutsches Kunststoff-Inst., 6100 Darmstadt, GFR): Wärmekapazität von Polyacrylaten und Polymethacrylaten im Temperaturbereich von -180° bis $160^\circ C$. *Kolloid-Z. Z. Polymere* 247 (1971) 763
- HOLAH, D. G., MURPHY, C. N. (Lakehead Univ., Chem. Dept., Thunder Bay, Ontario, Canada): On Cobalt(II) N,N-diethyl-dithiocarbamate. *J. Thermal Anal.* 3 (1971) 311
- HORSPOOL, W. M., KHANDELWAL, G. D. (Univ. Dundee, Dept. Chem., Dundee, DD1 4HN, England): Some thermal and photoreactions of benzo- and naphtofuraniones (coumarandiones). *J. Chem. Soc. C* (1971) 3328
- HÖRZ, G., STEINHEIL, E. (Max Planck Inst. Metallforsch., Inst. Sondermet., Stuttgart, GFR): Gleichgewichtsuntersuchungen im System Niob-Molybdän-Stickstoff. II. Thermodynamische Beschreibung des α -Mischkristalls. *Z. Metallk.* 62 (1971) 887
- HÖRZ, G., STEINHEIL, E. (Max Planck Inst. Metallforsch., Inst. Sondermet., Stuttgart,

- GFR): Gleichgewichtsuntersuchungen im System Niob-Molybdän-Stickstoff. III. *Z. Metallk.*, 62 (1971) 893
- HUBIN, M., GOUAULT, J. (INSCIR, Lab. Thermoelect. Couches Minces, 76-Mt. St. Aignan, France): Propriétés thermoélectriques entre -100 et $+100^{\circ}\text{C}$ de couches minces d'argent étudiées dans le milieu d'ultravide de formation. *Compt. Rend. Ser. B* 273 (1971) 797
- HUNDERI, D. (Victoria Univ. Wellington, Phys. Dept., Wellington, New Zealand): A sensitive calorimetric method for scanning measurements of the optical absorption of metals and alloys. *Rev. Sci. Instr.* 42 (1971) 1596
- HUNTLEY, D. J. (Simon Fraser Univ., Phys. Dept., Burnaby 2, B. C., Canada): Thermo-electric power of pure rhodium. *Can. J. Phys.* 49 (1971) 2610
- HUST, J. G., WEITZEL, D. H., POWELL, R. L. (NBS, Inst. Basic. Stand., Boulder, Colo., 80302 USA): Thermal conductivity, electrical resistivity, and thermopower of aerospace alloys from 4 to 300 K. *J. Res. Nat. Bur. Stand. A Phys. Chem.* 75 A (1971) 269
- ICHIHARA, S., KOMATSU, A., HATA, T. (Mitsubishi Petrochem. Co., Plast. Res. Lab., Yokkaichi, Mie, Japan): Thermal study of blended systems of poly(methyl methacrylate) and poly(vinyl acetate). *Polym. J.* 2 (1971) 640
- ICHIHARA, S., KOMATSU, A., HATA, T. (Mitsubishi Petrochem. Co., Plast. Res. Lab., Yokkaichi, Mie, Japan): Thermo-dynamic studies on the glass transition and the glassy state of polymers. II. Enthalpies and specific heats of polystyrene glasses of different thermal histories. *Polym. J.* 2 (1971) 644
- ICHIHARA, S., KOMATSU, A., HATA, T. (Mitsubishi Petrochem. Co., Plast. Res. Lab., Yokkaichi, Mie, Japan): Thermo-dynamic studies on the glass transition and the glassy state of polymers. III. Poly(α -methylstyrene). *Polym. J.* 2 (1971) 650
- IKRAMI, D. D., VAKHUSHKA, I., PARAMZIN, A. S. (Dushanbe Chem. Inst., Dushanbe, FaSSR): Mechanism of thermal dissociation of hydrofluorides of alkaline earth metals. *Zh. Fiz. Khim.* 45 (1971) 2693 (In Russian)
- INGHAM, P. E. (Wool Res. Org. N. Z. Inc., Christchurch, New Zealand): The pyrolysis of wood and the action of flame retardants. *J. Appl. Polym. Sci.* 15 (1971) 3025
- IVANOV, M. I., PODOLSKAYA, N. S.: Enthalpy of PuH_3 formation. *Zh. Fiz. Khim.* 45 (1971) 2963 (In Russian)
- JACK, J. C., KENNEDY, T. (Paisley Coll. Techn., Dept. Chem., Paisley, Scotland): The thermal analysis of "argentic oxy-nitrate" and silver oxides. *J. Thermal Anal.* 3 (1971) 25
- JANZ, G. J., TOMKINS, R. P. T., SIEGENTHALER, H., BALASUBRAHMANYAM, K., LURIE, S. W. (Rensselaer Polytech. Inst., Dept. Chem., Troy, N. Y., 12181 USA): Transport processes in low melting salts. The AgNO_3 – TiNO_3 system. *J. Phys. Chem.* 75 (1971) 4025
- JOST, W. (Univ. Göttingen, Inst. Phys. Chem., Göttingen, GFR): Specific heats of α -silver iodide. *J. Chem. Phys.* 55 (1971) 4680
- JUDD, M. D., POPE, M. I. (Portsmouth Polytech., Dept. Chem., Portsmouth, England): Monohydrates of strontium and barium hydroxide. Their preparation and X-ray powder patterns. *J. Thermal Anal.* 3 (1971) 397
- KALIKO, M. A., LUSHNIKOVA, T. D. (All Union Petroleum Reproc. Inst., Moscow, USSR): Effect of cations on the catalytic activity, thermal stability and selectivity of crystalline and amorphous cracking catalysts. II. Migration of cations in the catalyst structure. *Kinet. Katal.* 12 (1971) 1215 (In Russian)
- KANAZASHI, M., OZAWA, T., SAKAMOTO, R. (Electrotech. Lab., Tanashi, Tokyo, Japan): Mass spectrometric thermal analysis of polyethylene terephthalate. *Recent developments in mass spectroscopy. Proc. Internat. Conf. Mass. Spectr.*, Kyoto, 1970
- KASSIR, M. K. (City Univ. New York, City Coll., New York, N. Y., 10031 USA): Thermal crack propagation. *J. Basic Eng.* 93 (1971) 643
- KATO, M., SAWA, T., MIWA, T. (Osaka City Univ., Fac. Sci., Sumiyoshi-ku, Osaka,

- Japan): Thermal isomerization of benzene (C_9H_{10}) hydrocarbons. *J. Chem. Soc. D.* (1971) 1635
- KATZMAN, H., MOSS, J., LIBBY, W. F. (Univ. California, Dept. Chem., Los Angeles, Calif., 90029 USA): The heat capacity of indium antimonide. II. *J. Phys. Chem. Solids* 32 (1971) 2786
- KAUSCH, H. H. (Battelle Inst., Frankfurt 90, GFR): Über die thermo-mechanische Dissoziation von 6-Polyamid. *Kolloid Z. Z. Polymere* 247 (1971) 768
- KAWAMOTO, Y., TSUCHIHASHI, S. (Kobe Univ., Fac. Sci., Kobe, Japan): Thermal analysis of Ge-S glasses. *J. Am. Ceram. Soc.* 54 (1971) 526
- KEIL, C., BITTRICH, H.-J. (T. H. Chem. Carl Schörlemmer, Merseburg 6, GDR): Mischungskalorimetrie ohne Dampfraum. *Z. Phys. Chem.* 248 (1971) 65
- KESSLER, H., SIENKO, M. J. (École Supér. Chin., 68- Mulhouse, France): Low-temperature magnetic susceptibility of the spinel LiV_2O_4 . *J. Chem. Phys.* 55 (1971) 5414
- KETELAAR, J. A. A., VOS, B. (Univ. Amsterdam, Lab. Electrochem., Amsterdam, Netherlands): Zur Thermodynamik von Mischungen geschmolzener Salze. *Mnatsch. Chem.* 102 (1971) 1284
- KHALIL, A. A., HUSSEIN, A. T., GAD, G. M. (Nat'l. Res. Ctr., Cairo, UAR): On the thermochemistry of gypsum. *J. Appl. Chem. Biotechnol.* 21 (1971) 314
- KHAN, H. R., RAUB, CH. J. (Forsch. Inst. Edelmet. und Met. Chem., Schwäbisch, GFR): The palladium-tungsten phase diagram below 1100°C. *J. Less-Common Metals* 25 (1971) 441
- KHUSNUTDINOVA, V., OSKOTSKII, V. S., SMIRNOV, I. A., SERGEEVA, V. M. (Acad. Sci. USSR, Semicond. Inst., Leningrad, USSR): Thermal conductivity of gadolinium monosulphide. *Phys. Status Solidi B-Basic Res.* 48 (1971) 353
- KIPPERMAN, A. H. M. (Eindhoven Univ. Technol., Dept. Phys., Eindhoven, Netherlands): Thermoelectric power and electrical conductivity of layer compounds n -GaS and n -GaSe. *Solid State Commun.* 9 (1971) 1825
- KISZELY, I. (Archaeological Inst. of the Hung. Acad. Sci., Budapest 1, Hungary): Derivatographic analyses in the service of archeology and anthropology. *MOM Rev. No. 3* (1971) 28
- KLEVTSOV, P. V., DEMENEV, A. V., KLEVTSOVA, R. F.: Preparation of crystals, thermal stability, and structure of the double tungstates $LiR^{3+}(WO_4)_2$ for $R=Ga$, In, Sc, and Fe. *Sov. Phys.-Cryst. Engl. Transl.* 16 (1971) 440
- KODESS, B. N., KURITZIN, V. B., TRETJAKOV, B. N. (Inst. Solid State Phys., Chernogolovka, USSR): Low-temperature phase transformation in Nb-Ge-Al alloy. *Phys. Lett. A*, 37A (1971) 415
- KOGAN, V. A., DOROKHOVA, N. I., OSIROV, O. A. (Rostov Don State Univ., Rostov Don, USSR): Thermodynamic stability and structure of copper and cobalt chelates with azo ligand and azomethine ligand. *Zh. Strukt. Khim.* 12 (1971) 1105 (In Russian)
- KOKHANOVSKII, V. V., PAVLYUCHENKO, M. M., PRODAN, E. A. (Acad. Sci. BeSSR, Gen. and Inorg. Chem. Inst., Minsk, BeSSR): Effect of gaseous phase on thermal decomposition of yttrium carbonate. *Zh. Neorg. Khim.* 16 (1971) 2631 (In Russian)
- KOLAR, D., URBANC, V., GOLIČ, I., RAVNIK, V., VOLAVŠEK, B. (Inst. Jožef Stefan, Univ. Ljubljana, Ljubljana, Yugoslavia): Thermal investigation of $NiTeO_3$ and the synthesis of $Ni_2Te_3O_3$. *J. Inorg. Nucl. Chem.* 33 (1971) 3693
- KÖLBEL, H., ROBERG, H. (Tech. Univ. Berlin, Inst. Tech. Chem., Berlin): Kalorimetrische Messungen der Chemisorptionswärmeken von Gasgemischen. *Ber. Bunsen-Ges. Phys. Chem.* 75 (1971) 1100
- KOLOMAZNIK, K., ZAPLETAL, V., SOUKUP, J., RUZICKA, V. (Vysoka Skola Chem. Technol., Katedra Org., Prague, Czechoslovakia): Contribution to the utilisation of electronic microbalances for gravimetric thermal analysis. *Chem. Listy* 65 (1971) 1203 (In Czech)
- KOMAREK, K. L., STUMMERER, G. (Univ. Vienna, Inst. Anorg. Chem., Vienna, Austria): Thermodynamische Untersuchungen im System Gold-Cadmium. *Mnatsch. Chem.* 102 (1971) 1360
- KOMODA, R., NISHI, Y. (Ehime Univ., Fac. Eng., Matsuyama, Japan): Thermal decomposition of lead carbonate particles flowing through a rotary cylinder. *J. Soc.*

- Mater. Sci. Jap.* 20 (1971) 724 (In Japanese)
- KONIČKOVÁ, J., WADSÖ, I. (Univ. Lund, Chem. Ctr., Thermochem. Lab., S-220 07, Lund 7, Sweden): Use of flow microcalorimetry for the determination of cholinesterase activity and its inhibition by organophosphorus pesticides. *Acta Chem. Scand.* 25 (1971) 2360
- KOPVILLEM, U. KH., RIZAEV, V. R. (Acad. Sci. USSR, Engn. Phys. Inst., Kazan, USSR): Thermometer of dipole-dipole system. *Fiz. Tverd. Tela* 13 (1971) 3114 (In Russian)
- KORESHKIN, A. I. (Arkhangelsk Med. Inst., Arkhangelsk, USSR): Thermoconducting microcalorimeter with copper-constant thermobatteries. *Bull. Eksp. Biol. Med.* 72 (1971) 123 (In Russian)
- KORNILOV, A. N., USHAKOVA, I. M. (M. V. Lomonosov State Univ., Moscow, USSR): Standard heat of formation of hafnium dioxide. *Dokl. Akad. Nauk SSSR*, 200 (1971) 1382 (In Russian)
- KOULMANN, J.-J., GEWINNER, G., KUBLER, L., TAGLANG, P. (ISEA, 68-Mulhouse France): Propriétés magnétiques du bore à haute température. *Compt. Rend. Ser. B* 273 (1971) 900
- KOVALEV, N. N., SOROKIN, O. V. (Acad. Sci. USSR, Semicond. Inst., Leningrad, USSR): Electric conductivity, thermo-EMF and thermoionic emission of BaO and SrO crystals. *Izv. Akad. Nauk SSSR, Neorg. Mater.* 8 (1972) 111 (In Russian)
- KRIVTSEV, N. V., ROSOLOVSKII, V. Y., SHIROKOVA, G. N. (N. S. Kurnakov Gen. and Inorg. Chem. Inst., Moscow, USSR): Enthalpy of formation of nitride tetranitroaluminate and ion-Al³⁺. *Zh. Neorg. Khim.* 16 (1971) 2628 (In Russian)
- KRZHIZHANOVSKAYA, E. K., SUVOROV, A. V. (Leningrad State Univ., Leningrad, USSR): Calorimetry of heats of formation of crystalline $MCl_4 \cdot POCl_3$ ($M = Ti, Zr, Hf$). *Zh. Neorg. Khim.* 16 (1971) 3380
- KRZYŻANOWSKI, S., MALINOWSKI, M., KEHL, J. (Polish Acad. Sci., Inst. Org. Chem., Warsaw, Poland): Thermogravimetric studies on silicagels containing sodium ions. *Roczn. Chem.* 45 (1971) 2149
- KRUFTMAKHER, A. YA.: Vacancy formation and thermo EMF in Cu at high tempera-
- tures. *Fiz. Tverd. Tela* 13 (1971) 3454 (In Russian)
- KRUSIUS, M., PICKETT, G. R. (Helsinki Univ. Technol., Dept. Tech. Phys., Ota-niemi, Finland): Calorimetric determination of the nuclear quadripole interaction in arsenic. *Solid State Commun.* 9 (1971) 1917
- KUBASCHEWSKI, O., COUNSELL, J. F. (Natl. Phys. Lab., Div. Chem. Stand., Teddington, Middx., England): Thermodynamic properties of the system Au-Pt-Pd. *Monatsh. Chem.* 102 (1971) 1724
- KUCHERENKO, I. V., KOROLEV, YU. N., SHOTOV, A. P.: Carrier mobility in PbSe crystals in the temperature range 4.2 to 300°K. *Sov. Phys.-Semicond. Engl. Transl.* 5 (1971) 868
- KULIK, P. P.: High temperature viscosity and thermal conductivity of argon. *High Temp. USSR, Engl. Transl.* 9 (1971) 389
- KUHAR, A., JOSHI, M. M. (Banaras Hindu Univ., Phys. Dept., Varanasi 5, India): Low-temperature thermal conductivity of n-Ge. *Phys. Rev. B-Solid State* 4 (1971) 4643
- KURILOV, V. F.: Internal pressure and thermal expansion of NaCl and KCl crystals. *Sov. Phys.-Solid State Engl. Transl.* 13 (1971) 1003
- KUZNETSOV, V. A., GOLUBEVA, N. D., BAKUM, S. I. (Acad. Sci. USSR, New Chem. Prob. Inst., Moscow, USSR): The estimate of standard enthalpy of sodium hexahydroaluminate formation. *Dokl. Akad. Nauk SSSR* 201 (1971) 615 (In Russian)
- LAMOTH, P., MUSCUTARIU, I. (Univ. Timișoara, Inst. Elekt., Timișoara, Roumania): Temperaturabhängigkeit der induzierten magnetischen Anisotropie elektrolytisch niedergeschlagener Ni Fe-Schichten. *Z. Angew. Phys.* 32 (1971) 133
- LE ROUX, J.-P., LETERTRE, G., DESBENE, P.-L., BASSELIER, J.-J. (CNRS, Oxydation Chim. and Photochim., Paris 5^e, France): Réarrangements thermiques et photochimiques du pentaphényl-2,3,4,5,6-2H-pyranne. *Bull. Soc. Chim. Fr. A* (1971) 4059
- LEVINA, M. E., KOTOVA, YU. V. (Moscow State Univ., Gen. Chem. Dept., Moscow, USSR): The investigation of phase diagram in the system $(NH_4)_2BeF_4 - K_2BeF_4$ -

- H_2O at 40°C. *Vestn. Mosk. Univ. Khim.* 12 (1971) 572 (In Russian)
- LEVITSKII, V. A., RATIANI, D. D. (M. V. Lomonosov Univ., Moscow, USSR): Thermodynamics of double oxide systems. 4. Thermodynamic stability and reduction of cobalt-containing oxide compounds at higher temperatures. *Zh. Fiz. Khim.* 45 (1971) 2434 (In Russian)
- LEVY, J. B., LEHMANN, E. J. (George Washington Univ., Dept. Chem., Washington, D. C., 20006 USA): Thermal decomposition of 2,2'-diphenyl-2,2'-azohexafluoropropane. *J. Am. Chem. Soc.* 93 (1971) 5790
- LI, S. S., HUANG, C. I. (Univ. Florida, Dept. Elect. Engn., Gainesville, Florida, 32601 USA): Low-temperature photomagnetic-electric and photoconductive effects in *n*-type InAs. *Phys. Rev. B-Solid State* 4 (1971) 4633
- LINDBERG, A. B. (CNRS, Ctr. Delepine, 45, Orléans 02, France): Système d'équations thermodynamiques pour la capacité calorifique et la pression de vapeur de l'iode solide et liquide. *Compt. Rend. Ser. C* 273 (1971) 1017
- LIST, G. R., EVANS, C. D., SELKE, E., GLASS, C. A., HOFFMANN, R. L., MC MANIS, G. E. (USDA, ARS, Peoria, Ill., 61604 USA): Pyrolysis of some acetooxynonenes. *Lipids* 6 (1971) 635
- LIVSHITS, L. D., PECHERSKY, D. M., TRUKHIN, V. I. (O. Y. Shmidt Earth Phys. Inst., Moscow, USSR): Increase of residual magnetization at heating of wustite. *Fiz. Zemli* (1971) 102 (In Russian)
- LOBODYUK, V. A., SAVVAKIN, G. I., FEDAS, N. P., KHANDROS, L. G. (Acad. Sci. UkrSSR, Met. Phys. Inst., Kiev, UkrSSR): Structural variations on heating of iron-nickel alloy after shock loading. *Fiz. Metal. Metalloved.* 32 (1971) 893 (In Russian)
- LOGINOV, M. V., MITTSEV, M. A.: Thermal dissociation of SrCl_2 molecules at a tungsten surface. *Sov. Phys.-Tech. Phys.* 16 (1971) 557
- LOGINOVA, V. E., DVORNIKOVA, L. M., EVTUSHENKO, N. I. (Saratov State Univ., Chem. Inst., Saratov, USSR): Thermochemistry of rare earth propionates of the yttrium subgroup. *Zh. Neorg. Khim.* 16 (1971) 2947 (In Russian)
- LOVRIEN, R., STURIEVANT, J. M. (Univ. Minnesota, Coll. Biol. Sci., St. Paul, Minnesota, 55101 USA): Calorimetric determination of the enthalpies of binding of ions to deionized bovine serum albumin. *Biochem. J.* (1971) 3811
- LOWE, M., ABELEDO, C. R., MISETICH, A. A. (Boston Univ., Dept. Chem., Boston, Mass., 02215 USA): Temperature dependence of the magnetic transitions of $\text{CoCl}_2 \cdot 2\text{H}_2\text{O}$. *Phys. Lett. A*, 37A (1971) 274
- LURIE, E. G., KOVRIGA, V. V., LEBEDINSKAIA, M. L. (Moscow Plast. Mat. Inst., Moscow, USSR): Mechanism of the deformation of polypyromelliteimide by the thermodynamic method. *Dokl. Akad. Nauk SSSR* 201 (1971) 141 (In Russian)
- LÜTHY, H., ISLER, C., TISSOT, P. (Univ. Geneva, Lab. Chim. Electrochim. Appl., Geneva, Switzerland): Étude par analyse thermique différentielle des transformations ordre-désordre dans des alliages or-cuivre riches en or. *Helv. Chim. Acta* 54 (1971) 2194
- LUTZ, W. K., FRÜH, P. U., SIMON, W. (ETH, Lab. Org. Chem., Zürich, Switzerland): Microcalorimetric determination of ΔH° , ΔG° and ΔS° for the interaction of the carrier antibiotics nigericin and monensin with sodium and potassium ions. *Helv. Chim. Acta* 54 (1971) 2767
- L'VOV, S. N., GRECHKO, O. G. (N. K. Krupskaya Teachers Inst., Kherson, UkrSSR): Thermal conductivity of germanides of IV—VI group transition metals. *Izv. Akad. Nauk SSSR, Neorg. Mater.* 7 (1971) 1978 (In Russian)
- MACHON, J. P., NICCO, A. (Société Ethylène Plast., Ctr. Rech., 62, Mazingarbe France): Réactions de décomposition thermique des thioéthers oligomères du polythiotriméthylène. *Eur. Polym. J.* 7 (1971) 1693
- MACINNES, W. M., SCHRÖDER, K. (Syracuse Univ., Dept. Chem. Engr. and Mat. Sci., Syracuse, N. Y., 13210 USA): Thermoelectric power of a two-band ferromagnet. *Phys. Rev. B* 4 (1971) 4091
- MAGARIL, R. Z., IOANIDIS, N. V., KORZIN, N. V., POLSKAYA, N. I. (Tyumen Ind. Inst., Tyumen, USSR): Thermal decomposition of 1-hexene. *Zh. Fiz. Khim.* 45 (1971) 2455 (In Russian)

- MAKOGON, YU. N., NIKOLIN, B. I. (Acad. Sci. UkrSSR, Metallophys. Inst., Kiev, UkrSSR): Influence of high-temperature thermomechanical treatment on martensite $\gamma \rightarrow \epsilon$ and $\gamma \rightarrow e$ transitions in manganese steels. *Fiz. Metal. Metalloved.* 32 (1971) 1284 (In Russian)
- MALANCHUK, M. (US Environm. Protection Agency, Cincinnati, Ohio, 45237 USA): Thermal analysis of sodium metabisulfite. *Anal. Chim. Acta* 56 (1971) 377
- MALASPINA, L., GIGLI, R., BARDI, G. (Univ. Rome, Ist. Chim. Fis., 00185 Rome, Italy): Determination of the heat capacities of zinc and lead by microcalorimetry. *Ann. Chim. Rome* 61 (1971) 482 (In Italian)
- MALASPINA, L., GIGLI, R., BARDI, G. (Univ. Rome, Ist. Chim. Fis., 00185 Rome, Italy): Microcalorimetric determination of the enthalpy of sublimation of cadmium. *J. Chem. Thermodyn.* 3 (1971) 827
- MALASPINA, L., GIGLI, R., PIACENTE, V. (Univ. Rome, Ist. Chim. Lab. Chim. Fis., Rome, 00185, Italy): Détermination de l'enthalpie de fusion de certains éléments du III^e, IV^e et V^e groupe par analyse thermique différentielle. *Rev. Int. Hautes Temp. Réfract.* 8 (1971) 211
- MALÍŇÁK, B., TOUŽÍN, J., KOČANOVÁ, N., HAVELKOVÁ, J. (Purkyné Univ., Inst. Inorg. Chem., Brno, Czechoslovakia): Thermisches Verhalten der Peroxodiphosphate II. Natrium- und Kaliumhydrogenperoxodiphosphat und deren Infrarotspektren. *Collect. Czech. Chem. Commun.* 36 (1971) 3795
- MALTSEV, A. K., MIKAELIAN, R. G., NEFEDOV, O. M., HAUGE, R. H., MARGRAVE, J. L. (c/o Margrave, J. L., Rice Univ., Dept. Chem., Houston, Texas, 77001 USA): Pyrolysis of organomercury compounds: investigation by the method of matrix isolation. *Proc. Nat. Acad. Sci. USA* 68 (1971) 3238
- MAMEDOV, K. P., SULEIMANOV, Z. I. (Acad. Sci. AzSSR, Phys. Inst., Baku, AzSSR): Differential-thermographic study of the crystallization of selenium with tellurium and tin admixtures. *Izv. Akad. Nauk Azerb. SSR* (1971) 33 (In Russian)
- MANABE, T., GEJYO, T., SEKI, H. (Hitachi Ltd., Cent. Res. Lab., Kokubunji, Tokyo, Japan): A thermodynamic study on the composition of GaAs_{1-x}P_x deposited in vapor phase. *Jap. J. Appl. Phys.* 10 (1971) 1466
- MANDELKERN, L. (Florida State Univ., Dept. Chem. and Inst. Mol. Biophys. Tallahassee, Florida, 32306 USA): Thermodynamic and morphological properties of crystalline polymers. *J. Phys. Chem.* 75 (1971) 3909
- MARCHIANO, S. L., ARVIA, A. J. (Univ. Nacl. La Plata, Fac. Cienc. Exactas, Div. Electrochim., La Plata, Argentina): Thermodynamics of iron/molten-sodium-nitrate. *Electrochim. Acta* 17 (1972) 25
- MARCINKIEWICZ, S. (Pharmaceutical Inst., Warsaw, Poland): Rearrangement of N-allylamines. II. Pyrolysis of N-allyl-2-naphthylamine, N-allyl-m-nitroaniline and N-allyl-m-phenylenediamine. *Bull. Acad. Pol. Sci. Chim.* 19 (1971) 603
- MARCINKIEWICZ, S. (Pharmaceutical Inst., Warsaw, Poland): Rearrangement of N-allylamines. III. Pyrolysis of N,N-diallylnaphthylamines. *Bull. Acad. Pol. Sci. Chim.* 19 (1971) 609
- MARGULIS, E. V., REMIZOV, Y. S., KOPYLOV, N. I., BENYASH, E. Y., CHUFAROV, G. I. (Acad. Sci. USSR, Met. Inst., Sverdlovsk, USSR): Thermal decomposition of lead carbonate. *Zh. Neorg. Khim.* 16 (1971) 2683 (In Russian)
- MARKINA, N. V., RAETZKII, V. M., SAMSONOV, B. V., ZYKANOV, V. A. (Melekess Atom Reactor Res. Inst., Melekess, USSR): Variation of thermoelectric power of some alloys on reactor irradiation. *Fiz. Metal. Metalloved.* 32 (1971) 1316 (In Russian)
- MARLOW, W., PORTER, G. S. (Liverpool Polytech., Sch. Pharm., Liverpool 3, Lancs., England): The soda lime pyrolysis of saccharin. *J. Pharm. Pharmacol.* 23 (1971) 2505
- MARS, P. (Robert Gordon's Inst. Technol., Sch. Electr. and Elect. Engn., Schoolhill, Aberdeen, England): Thermal analysis of p-n junction second breakdown initiation. *Int. J. Electron.* 32 (1972) 39
- MARTIN, D. L. (Natl. Res. Council Canada, Div. Phys., Ottawa, Ont., Canada): Specific heat of gold-zinc alloys below 3°K. *Phys. Rev. B-Solid State* 4 (1971) 4117
- MARTIN, J. J. P., MARTIN-LEFEVRE, C., HUSSON, É. (Univ. Paris, Fac. Sci., Res., Chem., System. 75-Paris 5^e, France): Ana-

- lyses thermiques de l'heptoxy-trinitrate et du dioxynitrate de plomb hydratés. *Compt. Rend. Ser. C* 273 (1971) 1438
- MASER, K. (VEB Halbleiterwerk Frankfurt, Klein-Machnow, GDR): Bemerkungen zur thermischen Oxydation von Silizium. *Z. Phys. Chem.* 248 (1971) 42
- MATHIEU, A., PERRON, R. (CNRS, Labs. de Vitry-Thiais, 94-Thiais, France): Porte-échantillon à grande sensibilité thermique pour ATD sous pression. *J. Thermal Anal.* 3 (1971) 203
- MATVEENKO, A. V., SHALYT, S. S., SHUBNIKOV, M. L., VEKSHINA, V. S.: Galvanomagnetic properties of GaSb at low temperatures. *Sov. Phys.-Semicond. Engl. Transl.* 5 (1971) 949
- MC ADIE, H. G. (Ontario Res. Found., Dep. Phys. Chem., Ontario, Canada): Thermal analysis standards. Need and realization. *J. Thermal Anal.* 3 (1971) 79
- MCHEDLOV-PETROSSYAN, O. P., CHERNYAVSKII, V. L., DUBNITSKII, V. Y. (Railway Engn. Inst., Harkov, USSR): Statistical estimation of the results of differential thermal analysis of cement materials. *J. Thermal Anal.* 3 (1971) 111
- MIKHAILOVA, G. N.: Thermal and electrical conductivity of certain technical materials in the temperature range 0.4–1.5°K. *Sov. Phys.-Tech. Phys.* 16 (1971) 626
- MILLER, G. W. (Owens Illinois Corp., Tech. Ctr., Toledo, Ohio, 43601 USA): Thermal analyses of polymers. VII. Calorimetric and dilatometric aspects of the glass transition. *J. Appl. Polym. Sci.* 15 (1971) 2335
- MITIN, V. V. (Acad. Sci. UkrSSR, Semicond. Inst., Kiev, UkrSSR): Galvanomagnetic effects in many-valley semiconductors for strong magnetic and heating electric fields. *Phys. Status Solidi B-Basic Res.* 49 (1972) 125
- MOGILEVSKII, B. M., SOKOLOV, V. N., CHUDNOVSKII, A. F. (V. I. Lenin Agr. Sci. Acad., Agrophys. Inst., Leningrad, USSR): Heat conductivity of Sb telluride-Sb selenide system in the melt. *Fiz. Tverd. Tela* 13 (1971) 3103 (In Russian)
- MOGILEVSKII, B. M., SURIN, V. G.: Thermal conductivity of organic compounds which undergo phase transitions in the solid state. *Sov. Phys.-Solid State Engl. Transl.* 13 (1971) 1123
- MOHAI, B. (Univ. Chem. Ind., Inst. Allg. und Anorg. Chem., Veszprém, Hungary): Thermolyse von Cyanokomplexen, VI. Derivatographische Untersuchung von Alkali-Hexa- und Alkali-Pentacyanoferraten. *J. Thermal Anal.* 3 (1971) 403
- MOHAPATRA, B. K., RAO, R. D. V.: γ -picoline complex of copper(II) iodide. *Curr. Sci.* 40 (1971) 599
- MOORE, B. K., SATTERTHWAITE, C. B. (Northwestern Univ., Med. Sch., Chicago, Ill., 60611 USA): Thermal conductivity of niobium in magnetic fields near H_{c2} . *Phys. Rev. Lett.* 28 (1972) 28
- MORACHEVSKII, A. G., BYKOVA, M. A., MAIOROVA, E. A. (M. I. Kalinin Polytech. Inst., Leningrad, USSR): Thermodynamic properties of liquid alloys in the sodium-indium system. *Zh. Prikl. Khim.* 44 (1971) 2317 (In Russian)
- MORIE, G. P., POWERS, T. A., GLOWER, C. A. (Tennessee Eastman Co., Res. Lab., Div. Eastman Kodak Co., Kingsport, Tennessee, 37662 USA): Evaluation of thermal analysis equipment for the determination of vapor pressure and heat of vaporization. *Thermochim. Acta* 3 (1972) 259
- MORLIN, Z. (Hungarian Acad. Sci., Res. Lab. Chem. Struct., Budapest 8, Hungary): Phase transformation of thin caesium iodide layers at low temperatures. *Acta Crystallogr. B27* (1971) 2493
- MOROZOV, A. E., SLAVATINSKII, S. A., FETISOV, I. N. (P. N. Lebedev Phys. Inst., Moscow, USSR): Ionization calorimeter (calculations and experiment). *Izv. Akad. Nauk SSSR, Ser. Fiz.* 35 (1971) 2022 (In Russian)
- MORRIS, P. (Trinity Coll., Phys. Dept., Dublin, Ireland): Magnetic measurements at low temperatures using a flux-gate magnetometer. *J. Phys. E-Sci. Instrum.* 4 (1971) 920
- MURAT, M. (Fac. Sci. Lyon, Lab. Chim. Appl. et Gen. Chim., 69-Villeurbanne, France): Sur l'effet exothermique associé à la transformation de l'anhydrite hexagonal en anhydrite orthorhombique. *J. Thermal Anal.* 3 (1971) 259
- MURRILL, E., WHITEHEAD, M. E., BREED, L. (Midwest Res. Inst., 425 Volker Boulevard, Kansas City, Miss., 64110 USA): Solid-solid phase transition determined by differential scanning calorimetry. IV. New trans-

- sitions in tetrahedral substances. *Thermochim. Acta* 3 (1972) 311
- MUSBALLY, G. M., ALEMAN, H., LIELMEZS, J. (Univ. British Columbia, Chem. Engr. Dept., Vancouver 8, B. C., Canada): Thermodynamic functions for three 1-halo-2-fluoroethanes. *Thermochim. Acta* 3 (1972) 327
- MYAGKOV, YU. P., KAPLUNOV, M. G., BOROD'KO, YU. G., SHILOV, A. E. (Acad. Sci. USSR, Chem. Phys. Inst., Moscow, USSR): Kinetics and the mechanism of thermal decomposition of $\text{OsN}_2(\text{NH}_3)_5\text{Cl}_2$. *Kinet. Katal.* 12 (1971) 1158 (In Russian)
- MYSHLYAEV, M. M., STEPANOV, W. A., SHPEIZMAN, V. V. (Acad. Sci. USSR, Inst. Solid State Phys., Chernogolovka, USSR): Change in creep mechanism of B. C. C. metals at transition from low to high temperatures. *Phys. Status Solidi A-Appl. Res.* 8 (1971) 393
- NABIEV, M. N., BORUKHOV, I. A., SAIBOVA, M. T., BERG, L. G. (Acad. Sci. UzSSR, Chem. Inst., Tashkent, UzSSR): Differential thermal analysis of $(\text{NH}_4)_2\text{Mg}(\text{SO}_4)_2 \cdot 6\text{H}_2\text{O}$. *Zh. Neorg. Khim.* 16 (1971) 2621 (In Russian)
- NAGAI, H., SHIBATA, T., OKAMOTO, H. (Nippon Telegraph and Tel. Publ. Corp., Electr. Cnmm. Lab., Musashino-shi, Tokyo, Japan): Thermodynamical analysis for vapor growth of $\text{Ga}_x\text{In}_{1-x}\text{As}$ crystals. *Jap. J. Appl. Phys.* 10 (1971) 1337
- NAGENDER-NAIDU, S. V., HOUSKA, C. R. (Virginia Polytech. Inst. and State Univ., Dept. Metals and Ceramic Ingn., Blacksburg, Virginia, 24061 USA): X-ray determinations of the Debye temperatures and thermal expansions for the Pd - Ag - Au system. *J. Appl. Phys.* 42 (1971) 4971
- NASU, S., TAMAKI, M., TAGAWA, H., KIKUCHI, T. (Japan Atom Energy Res. Inst., Tokaimura, Ibaraki-ken, Naka-gun, Japan): Magnetic behavior of hexagonal U_2N_3 in the temperature range from 77 to 300°K. *Phys. Status Solidi A-Appl. Res.* 9 (1972) 317
- NASU, S., VAN DIEPEN, A. M., NEUMANN, H. H., CRAIG, R. S. (Univ. Pittsburgh, Dept. Chem., Pittsburgh, Pa., 15213 USA): Specific heats of LaIn_3 , CeIn_3 and PrIn_3 at temperatures between 1.5 and 4.2°K. *J. Phys. Chem. Solids* 32 (1971) 2773
- NASU, S., NEUMANN, H. H., MARZOUK, N., CRAIG, R. S., WALLACE, W. E. (Univ. Pittsburgh, Dept. Chem., Pittsburgh, Pa., 15213 USA): Specific heats of LaNi_3 , CeNi_3 , PrNi_3 and GdNi_3 between 1.6 and 4°K. *J. Phys. Chem. Solids* 32 (1971) 2779
- NATARAJAN, N. S., CHARI, M. S. R. (Natl. Phys. Lab., New Delhi 12, India): Thermal conductivity of rhodium at helium temperatures and in magnetic fields. *Indian J. Pure Appl. Phys.* 9 (1971) 439
- NAVROTSKY, A. (Arizona State Univ., Dept. Chem., Tempe, Arizona, 85281 USA): Thermodynamics of formation of the silicates and germanates of some divalent transition metals and of magnesium. *J. Inorg. Nucl. Chem.* 33 (1971) 4035
- NEDELJKOVIC, A. I., COOK, R. L. (Univ. Illinois, Dept. Ceramic Engr., Urbana, Ill., 61801 USA): Thermal expansion of porcelain enamels containing cerium oxide. *Amer. Ceram. Soc. Bull.* 50 (1971) 929
- NEUMANN, H. H., NASU, S., CRAIG, R. S., MARZOUK, N., WALLACE, W. E. (Univ. Pittsburgh, Dept. Chem., Pittsburgh, Pa., 15213 USA): Specific heats of LaNi_2 and NdNi_2 between 1.6 and 4°K. *J. Phys. Chem. Solids* 32 (1971) 2788
- NIKITIN, YU. N., EPSHTEIN, V. G. (Yaroslavl Synth. Rub. Monomer Inst., Yaroslavl, USSR): Influence of the structural peculiarities of three-dimensional network on thermal stability of unfilled vulcanizates from natural rubber. *Kolloid Zh.* 33 (1971) 873 (In Russian)
- NIKULINA, I. N., PASTUKHOVA, N. E., STASHKOVA, N. V., KURBATOVA, V. I., BRAININA, K. Z., STEPIN, V. V.: Analysis of standard samples by the inversion voltammetry method for solid phases. Determination of lead in high temperature alloys, ferrochrome and ferromanganese. *Zavod. Lab.* 37 (1971) 1161 (In Russian)
- NITTA, T., MIYAZAWA, T. (Matsushita Elect. Ind. Co. Ltd., Wireless Res. Lab., Osaka, Japan): X-ray and thermal-expansion study of an $(\text{Na}_{0.88}\text{Li}_{0.12})\text{NbO}_3 + 6\text{mol } \% \text{ Li}_2\text{O}$ ceramic. *J. Amer. Ceram. Soc.* 54 (1971) 636
- NOVITSKII, L. A., E'RGARDT, H. N.: New instruments for thermophysical investigations. *High Temp. USSR, Engl. Transl.* 9 (1971) 416

- OSIPOV, E. V., ROZHDESTVENSKAIA, V. V., ZEMSKOV, V. S., VARICH, N. I., MIKITEI, P. P. (A. A. Baikov Met. Inst., Moscow, USSR): Galvanothermomagnetic properties of solid solution single crystals of the Bi—Sb system. *Dokl. Akad. Nauk SSSR* 201 (1971) 1338 (In Russian)
- ØSTVOLD, T. (Univ. Trondheim, Inst. Phys. Chem., N-7000 Trondheim, Norway): Enthalpies of mixing in the ternary systems CaCl_2 — MeCl — MeBr — CaBr_2 where Me is Na, K and Rb. *Acta Chem. Scand.* 25 (1971) 2302
- PADERNO, YU. P., ODINTSOV, V. V., TIMOFEEVA, I. I., KLOCHKOV, L. A.: Thermal expansion of metal dodecaborides. *High Temp. USSR, Engl. Transl.* 9 (1971) 175
- PAIĆ, M., DESPOTOVIĆ, Z. (Univ. Zagreb, Inst. Phys., Zagreb, Yugoslavia): Thermo-gravimetric analysis of cadmium sulphide-manganese sulphide systems obtained by coprecipitation. *Croat. Chem. Acta* 43 (1971) 175
- PANLENER, R. J., BLUMENTHAL, R. J., (Marquette Univ., Coll. Engn., Milwaukee, Wisconsin, 53233 USA): Ti-rich nonstoichiometric BaTiO_3 : III. High-temperature thermodynamic and X-ray diffraction measurements. *J. Am. Ceram. Soc.* 54 (1971) 610
- PARFEN'eva, L. S., SMIRNOV, I. A., TIKHONOV, V. V.: Thermal conductivities of the fluorides of Cu, Ba, and Sr. *Sov. Phys.-Solid State Engl. Transl.* 13 (1972) 1267
- PASHAEV, B. P., REVELIS, V. G.: Thermal conductivity of some indium-tin alloys in the solid and liquid state. *High Temp. USSR, Engl. Transl.* 9 (1971) 402
- PAUKOV, I. E., KHRIPLOVICH, L. M., LUKYANOVA, I. G. (Acad. Sci. USSR, Inorg. Chem. Inst., Novosibirsk-90, USSR): True heat capacity at low temperatures, absolute entropy and enthalpy in RbCO_3 standard conditions. *Zh. Fiz. Khim.* 45 (1971) 2451 (In Russian)
- PAULIK, J., PAULIK, F. (Techn. Univ., Inst. Allg. und Anal. Chem., Budapest 11, Hungary): Kombinierte Derivatographische und thermogravimetrische Untersuchungen von Verbindungen die unter Abspaltung von Ammoniak zerfallen. *J. Thermal Anal.* 3 (1971) 63
- PELEVIN, D. V., VORONKOV, V. V., GIRICH, B. G., MILVIDSKY, M. G. (Moscow Rare Met. Inst., Moscow, USSR): The interaction of impurities in gallium arsenide at the melting point. *Izv. Akad. Nauk SSSR, Neorg. Mater.* 8 (1972) 57 (In Russian)
- PELLA, E., NEBULONI, M. (Carlo Erba Res. Inst., Milan, Italy): Use of differential calorimeter for establishing temperature standards. *J. Thermal Anal.* 3 (1971) 343
- PELLA, E., NEBULONI, M. (Carlo Erba Res. Inst., Milan, Italy): Temperature measurements with a differential calorimeter. *J. Thermal Anal.* 3 (1971) 229
- PEMBERTON, I., GUÉNAULT, A. M. (Univ. Lancaster, Dept. Phys. Lancaster, England): Low-temperature thermoelectric power of some dilute Cu alloys. *Phys. Lett. A* 37A (1971) 17
- PERELYAEV, V. A., SHVEIKIN, G. P. (Acad. Sci. USSR, Chem. Inst., Sverdlovsk, USSR): Magnetic properties of solid solutions in the V_2O_3 — Cr_2O_3 system under 80—320°K. *Izv. Akad. Nauk. SSSR, Neorg. Mater.* 7 (1971) 2045 (In Russian)
- PEREVERZEA, L. P., POGOSSKAYA, N. Z., POVLAVKO, YU. M., PAKHOMOV, V. I., REZ, I. S., SILNITSKAYA, G. B. (N. S. Kurnakov Gen. and Inorg. Chem. Inst., Moscow, USSR): Dielectric anomalies in KH_2PO_4 , KD_2PO_4 and RbH_2PO_4 crystals at high temperatures. *Fiz. Tverd. Tela* 13 (1971) 3199 (In Russian)
- PERRON, R., MATHIEU, A. (CNRS, Labs. de Vitry-Thiais, 94-Thiais, France): Sur un principe de régulation de la température en ATD. *J. Thermal Anal.* 3 (1971) 297
- PETRU, F., MUCK, A. (Tech. Coll. Chem. Prague, Inst. Inorg. Chem., Prague 6, Czechoslovakia): Beiträge zur Chemie der seltenen Elemente LXXVII. Thermische Zersetzung von Scandiumphosphit, $\text{Se}_2(\text{HPO}_3)_3 \cdot x\text{H}_2\text{O}$. *Collect. Czech. Chem. Commun.* 36 (1971) 3761
- PETZEL, T., GREIS, O. (Univ. Freiburg, Chem. Lab., Freiburg, GFR): Über den Einfluss von Wolfram auf das Verdampfungsverhalten von Europiumsesquioxid bei Temperaturen oberhalb 1900°C. *Rev. Int. Hautes Temp. Réfract.* 8 (1971) 269
- PHILLIPS, N. E., TRIPLETT, B. B., CLEAR, R. D., SIMON, H. E., HULM, J. K., JONES, C. K., MAZELSKY, R. (Lawrence Radiat. Lab., Inorg. Mat. Res. Div., Berkeley, Calif., 94720 USA): Low-temperature

- heat capacities of superconducting semiconductors. *Physica* 55, (1971) 571
- PIETRASS, B. (DAW, Zent. Inst. Festkörperphys. and Werkstoffforsch., Dresden, GDR): Analysis of the elastic anomalies at the structural phase transition of SrTiO_3 near 105 K. *Phys. Status Solidi B-Basic Res.* 47 (1971) 495
- PLUMMER, G., SENOZAN, N. M. (California State Coll., Dept. Chem., Long Beach, Calif., 90801 USA): Thermodynamic properties of strontium ammoniate and the gaseous formation energy of $\text{Sr}(\text{NH}_3)_6^{2+}$. *J. Chem. Phys.* 55 (1971) 4062
- POCZOPKO, S., MECIK, M. (N. Copernicus Univ., Inst. Chem., Turun, Poland): Calorimetric investigations of $\text{KNO}_3 - \text{NH}_4\text{NO}_3 - \text{H}_2\text{O}$ system at 25°C. *Roczn. Chem.* 45 (1971) 1947 (In Polish)
- PÖDÖR, B., BODÓ, B., SOMOGYI, K. (Hungarian Acad. Sci., Res. Inst. Tech. Phys., Budapest 2, Hungary): Thermolectric power of plastically deformed germanium. *Phys. Status Solidi A-Appl. Res.* 7 (1971) K 105
- POLACZEK, J., LISICKI, Z. (Inst. Ciezkiej Synth. Org. Blachownia Śląska, Poland): Über die Trägheitsmessfehler der thermometrischen Methode von Reaktionskinetischen Untersuchungen. *J. Thermal Anal.* 3 (1971) 3
- POLGAR, L. G., FRIEDBERG, S. A. (Eindhoven Univ. Technol., Dept. Phys., Eindhoven, Netherlands): Low-temperature heat capacity of the metamagnet $\text{Ni}(\text{NO}_3)_2 \cdot 2\text{H}_2\text{O}$. *Phys. Rev. B-Solid State* 4 (1971) 3110
- PRIEST, W. J., SIFAIN, M. M. (Eastman Kodak Co., Res. Labs., Rochester, N. Y., 14650 USA): Photochemical and thermal isomerization in polymer matrices: azo compounds in polystyrene. *J. Polym. Sci. A-1*, 9 (1971) 3161
- PRIVALOV, P. L., KHECHINASHVILI, N. N., ATANASOV, B. P. (Acad. Sci. USSR, Inst. Prot. Res., Poustchino, USSR): Thermodynamic analysis of thermal transitions in globular proteins. I. Calorimetric study of chymotrypsinogen, ribonuclease and myoglobin. *Biopolymers* 10 (1971) 1865
- PRODAN, E. A., PAVLYUCHENKO, M. M., LESNIKOVICH, L. A. (Acad. Sci. BeSSR, Gen. and Inorg. Chem. Inst., Minsk, BeSSR): Thermal transformations of acide sodium tripolyphosphate $\text{Na}_4\text{HP}_3\text{O}_{10} \cdot \text{H}_2\text{O}$. *Izv. Akad. Nauk SSSR, Neorg. Mater.* 8 (1972) 106 (In Russian)
- PRYMOVA, L. A., SELIVANOVA, N. M. (D. I. Mendeleev Chem. Technol. Inst., Moscow, USSR): Heat of formation of magnesium-ammonium selenate schoenite. *Zh. Fiz. Khim.* 45 (1971) 2679 (In Russian)
- QURESHI, M., RATHORE, H. S., KUMAR, R. (Aligarh Muslim Univ., Dept. Chem., Aligarh, U. P., India): Dehydration studies of titanium molybdate. *J. Thermal Anal.* 3 (1971) 371
- RAMACHANDRAN, V. S. (Nat. Res. Council Canada, Div. Build. Res., Ottawa, Canada): Estimation of tricalcium silicate through polymorphic transformation. *J. Thermal Anal.* 3 (1971) 181
- RASUVAEV, G. A., TROITSKAYA, L. S., TROITSKII, B. B. (Acad. Sci. USSR, Inst. Chem., Gorkii, USSR): Mechanism of action of some stabilizers in the thermal degradation of poly(vinyl chloride). *J. Polym. Sci. A-1*, 9 (1971) 2673
- RATKOVICS, F. (Univ. Chem. Ind. Veszprém, Dept. Phys. Chem., Veszprém, Hungary): Adiabatic calorimeter designed for the measurement of enthalpy changes on mixing. *Magy. Kém. Foly.* 77 (1971) 499 (In Hungarian)
- REMIZOV, V. G., MALYUTIN, S. A., KORTAEVA, L. G., SAMPLAVSKAYA, K. K., IVANOV-EMIN, B. N. (P. Lumumba Univ., Moscow, USSR): Heat of formation of alkali metal and ammonium sulfatoscanlates. *Zh. Fiz. Khim.* 45 (1971) 2941 (In Russian)
- REZNITSKII, L. A., FILIPPOVA, S. E. (M. V. Lomonosov State Univ., Chem. Fac., Moscow, USSR): The effect of heat treatments on heat capacity of copper ferrite CuFe_2O_4 . *Zh. Fiz. Khim.* 45 (1971) 2938 (In Russian)
- RICHON, G., GOUAULT, J. (Inst. Natl. Super., Lab. Thermoelectr., 76-Mont-St.-Aignan, France): Comportement thermooélectrique in situ de -100 à +200°C, en fonction de l'épaisseur de couches minces d'alliage cuivre-nickel, obtenues par bivaporation contrôlée en ultra-vide. *Compt. Rend. Ser. B* 273 (1971) 749
- RICHTER, H. (Max Planck Inst. Met. Forsch., Stuttgart, GFR): Zusammenhänge zwi-

- schen der Verdampfungsenthalpie und der Molekülform bei den Alkanen. *Chem. Z.* 95 (1971) 916
- RIEDNER, R. J., CARTZ, L. (Marquette Univ., Milwaukee, Wisconsin, 53233 USA): Thermal expansion characteristics of CrVO_4 by X-ray diffraction. *J. Appl. Phys.* 42 (1971) 5177
- ROBENS, E., SIEGLER, R., WALTER, G. (Batelle-Institut e. V., Frankfurt (Main), GFR): Thermogravimetric Analyse von Calciumoxalat unter vermindertem Druck. *J. Thermal Anal.* 3 (1971) 433
- ROCKER, W., KOHLHAAS, R., SCHÖPGENS, H. W. (Max Planck Inst. Eisenforsch., Düsseldorf, GFR): Magnetokalorischer Effekt und kritische Exponenten des Eisens in der Umgebung seiner Curietemperatur. *Z. Angew. Phys.* 32 (1971) 164
- RODE, V. V., BONDARENKO, E. M., KORSHAK, V. V., RUSANOV, A. L., KATSARAVA, R. D., BALYKOVA, T. N. (Acad. Sci. USSR, Inst. Organoelement. Cpd., Moscow, USSR): On the thermal stability of poly-benzoylene-benzimidazole. *Vysokomol. Soedin. Ser. B* 13 (1971) 732 (In Russian)
- RODEN, WM. S., MORAAL, H., MCCOURT, F. R. (Univ. Waterloo, Dept. Chem., Waterloo, Ont., Canada): Senftleben-Beenakker effects and the thermomagnetic torque in time-varying fields. *J. Chem. Phys.* 56 (1972) 70
- ROEDIG, A., DETZER, N., BONSE, G. (Univ. Würzburg, Inst. Org. Chem., D-87 Würzburg, GFR): Thermisch instabile Allene. IX. Trichlorobromallen. *Ann. Chem.* 752 (1971) 60
- ROGERS, F. E. (Univ. Dayton, Dept. Chem., Dayton, Ohio, 45409 USA): Thermochemistry of the Diels-Alder reaction. II. Heat of addition of several dienes to tetracyanoethylene. *J. Phys. Chem.* 76 (1972) 106
- ROJAS, R. M., BERMUDEZ, J., CRIADO, E. (CSIC, Inst. Inorg. Chem., Madrid, Spain): Thermal decomposition of uranyl propionate dihydrate. *J. Thermal Anal.* 3 (1971) 277
- ROSENQVIST, T., TUNGEVIK, K. (Tech. Univ. Norway, Dept. Met., Trondheim, Norway): Thermodynamics of silicon sulphides and zinc sulphide. *Trans. Faraday Soc.* 67 (1971) 2945
- ROSSAT-MIGNOD, J., QUEZEL, G., BERTON, A., CHAUSSY, J. (CEN, Lab. Diffraction Neutronique, Grenoble-Gare, France): Chaleur spécifique et propriétés magnétiques de l'oxysulfure d'ytterbium. *Phys. Status Solidi B-Basic Res.* 49 (1972) 147
- RUBSHTEIN, V. M., NOVIKOV, V. P., SOGOLOVA, T. I. (Karpov Phys. Chem. Inst., Moscow, USSR): An apparatus for studying the polymers in wide temperature range. *Zavod. Lab.* 37 (1971) 1262 (In Russian)
- SAKAMOTO, R., OZAWA, T., KANAZASHI, M. (Electrotech. Lab., Tanashi, Tokyo, Japan): Mass spectrometric thermal analysis of poly(methyl methacrylate) of high molecular weight. *Thermochim. Acta* 3 (1972) 291
- SAMARA, G. A. (Sandia Labs., Albuquerque, New Mexico, 87115 USA): Pressure and temperature dependence of the dielectric properties and phase transitions of the ferroelectric perovskites: PbTiO_3 and BaTiO_3 . *Ferroelectrics* 2 (1971) 277
- SAMSONOV, G. V., KOVENSKAYA, B. A., SEREBRYAKOVA, T. I., TEL'NIKOV, E. YE.: Thermal expansion of the diborides of the transition metals of groups IV and V. *High Temp. USSR, Engl. Transl.* 9 (1971) 170
- SANDAKOVA, M. I., SANDAKOV, V. M., GELD, P. V. (S. M. Kirov Polytech. Inst., Sverdlovsk, USSR): Heat capacity and entropy of cobalt and iron monoaluminides at lowered temperatures. *Zh. Fiz. Khim.* 45 (1971) 2676 (In Russian)
- SASTRY, D. H., PRASAD, Y. V. R. K., VASU, K. I. (Indian Inst. Sci., Met. Dept., Bangalore, India): Low temperature deformation behaviour of polycrystalline copper. *J. Mater. Sci.* 6 (1971) 1433
- SCHIESS, P., CHIA, H. L., RINGELE, P. (Univ. Basel, Inst. Org. Chem., Basel, Switzerland): Thermal cyclization of cis-dienone-oximes. *Tetrahedron Lett.* (1972) 313
- SCHLÖGL, F. (Rhein-Westfal. Tech. Hochsch., Inst. Theoret. Phys., D-5100 Aachen GFR): On thermodynamics near a steady state. *Z. Phys.* 248 (1971) 446
- SCHWARTZ, R. G., GERSTEIN, B. C. (Chemstrand Res. Ctr. Inc., Durham, North Carolina, 27792 USA): Thermal study of three In-Tl alloys in the neighbourhood of the fcc-fcc transformation; heat capac-

- ties from 5–300°K. *J. Chem. Phys.* 55 (1971) 4034
- SCHWITZGEBEL, K., LOWELL, P. S., PARSONS, T. B., SLADEK, K. J. (c/o K. J. Sladek, Univ. Texas, Dept. Chem. Engn., Austin, Texas, 78712 USA): Estimation of heats of formation of binary oxides. *J. Chem. Eng. Data* 16 (1971) 418
- SEGNIT, E. R., HOLLAND, A. E. (CSIRO, Div. Bldg. Res., Melbourne, Australia): Formation of cordierite from clinochlore and kaolinite. *J. Austral. Ceram. Soc.* 7 (1971) 43
- SELEZNEV, V. P., RAKOV, E. G., MIKULENOK, V. V. (D. I. Mendeleev Chem. Technol. Inst., Moscow, USSR): Thermodynamic properties of niobium and tantalum pentafluorides. *Zh. Fiz. Khim.* 45 (1971) 2941 (In Russian)
- SELLERS, P. (Univ. Lund, Chem. Ctr., Lund 7, S-220 07, Sweden): Enthalpy of formation of 2,2,6,6-tetramethyl-4-heptanone. *Acta Chem. Scand.* 25 (1971) 2099
- SELLERS, P. (Univ. Lund, Chem. Ctr., Lund 7, S-220 07, Sweden): Enthalpies of formation of cis- and trans-2-hydridanone. *Acta Chem. Scand.* 25 (1971) 2189
- SELLERS, P. (Univ. Lund, Chem. Ctr., Lund 7, S-220 07, Sweden): Enthalpies of formation of squaric acid and the corresponding diethyl ether. *Acta Chem. Scand.* 25 (1971) 2194
- SELLERS, P. (Univ. Lund, Chem. Ctr., Lund 7, S-220 07, Sweden): Enthalpy of formation of tetramethyl-1,3-cyclobutane-dione. *Acta Chem. Scand.* 25 (1971) 2291
- SELVARAJAN, R., BOYER, J. H. (c/o Boyer, J. H., Univ. Illinois, Dept. Chem., Chicago Circle Campus, Chicago, Ill., 60680 USA): Photolysis and pyrolysis of 2-azido-3-nitroephtalene. *J. Org. Chem.* 36 (1971) 3464
- SEMENENKO, K. N., SAVCHENKOVA, A. P., ILINA, T. S., SUROV, V. N. (M. V. Lomonosov State Univ., Moscow, USSR): Heat of formation of aluminium chloride and its etherate. *Zh. Neorg. Khim.* 16 (1971) 2939 (In Russian)
- SHAHID, M. S., HEAL, H. G., GARCIA-FERNANDEZ, H. (Queens Univ., Chem. Dept., Belfast, North Ireland): Thermal decomposition of saturated sulphur-nitrogen rings. *J. Inorg. Nucl. Chem.* 33 (1971) 4364
- SHARKEY, J. B., LEWIN, S. Z. (New York Univ., Dept. Chem., New York, N. Y., 10003 USA): Thermochemical properties of the copper(II) hydroxychlorides. *Thermochim. Acta* 3 (1972) 189
- SHARMA, S. K. (Indian Inst. Technol., Dept. Phys., Hanz Khas, New Delhi, India): Hot-electron galvano-thermo-magnetic transport properties of III – V semiconductors at low temperatures (II). *Phys. Status Solidi A-Appl. Res.* 9 (1972) 275
- SHAW, R. (Stanford Res. Inst., Phys. Sci. Div., Menlo Park, Calif., 94025 USA): Heats of formation of nitroaromatics. Group additivity for solids. *J. Phys. Chem.* 75 (1971) 4047
- SHCHEGOROV, L. N., PECHKOVSKII, V. V., RYADCHENKO, A. G., MELNIKOVA, R. Y. (S. M. Kirov Technol. Inst., Minsk, USSR): Thermal decomposition of cobalt (II) ammonium phosphate. *Zh. Neorg. Khim.* 16 (1971) 3056 (In Russian)
- SHEPELEV, N. P., ARKHANGEL'SII, I. V., KOMISSAROVA, L. N., SHATSKII, V. M. (M. V. Lomonosov State Univ., Inorg. Chem. Dept., Moscow, USSR): Synthesis and thermal stability of scandium iodides. *Zh. Neorg. Khim.* 16 (1971) 3220 (In Russian)
- SHIBANOV, E. V., CHUKHLANTSEV, V. G. (S. M. Kirov Polytech. Inst., Sverdlovsk, USSR): Thermodynamics of solid phase reactions in the CaO – ZrSiO₄ system. *Zh. Fiz. Khim.* 45 (1971) 2893 (In Russian)
- SHIMAZAKI, H. (Univ. Tokyo, Fac. Sci., Geol. Inst., Hongo, Tokyo, Japan): Thermochemical stability of bravoite. *Econ. Geol.* 66 (1971) 1080
- SHUBBER, A. K., DANNLEY, R. L. (c/o Dannley, R. L., Case Western Reserve Univ., Dept. Chem., Cleveland, Ohio, 44106 USA): The thermal decomposition of bisilyl peroxides and triphenylsilyl triphenylgermyl peroxide. *J. Org. Chem.* 36 (1971) 3784
- SHUR, V. B., BERKOVICH, E. G., VOL'PIN, M. E. (Acad. Sci. USSR, Organoelemental Cpd. Inst., Moscow, USSR): Formation of aniline under thermodecomposition of diphenyltitanocene in presence of nitrogen. *Izv. Akad. Nauk SSSR, Ser. Khim.* (1971) 2358 (In Russian)
- SHURYGINA, E. A., LARINA, N. K., CHUBAROVA, M. A., KONONOVA, M. M. (Doku-

- chaev Soil Sci. Inst., Moscow, USSR): Differential thermal analysis and thermogravimetry of soil humus substances. *Geoderma* 6 (1971) 169
- SIDNEV, A. I., AGAPOVA, T. A., RADZEVICH, N. E., PONAMARENKO, V. A., GRINEVICH, K. P., TIMOSHINA, V. N. (c/o Agapova, T. A. Minist. Chem. Ind., Moscow, USSR): Study of thermal-oxidative degradation of hexamethylpolydimethylpolymethyl- γ -trifluoropropylsiloxane. *Vysokomol. Soedin Ser. A* 13 (1971) 2705 (In Russian)
- SIMCHEN, A. E. (Minist. Def., Sci. Dept., Tel Aviv, Israel): The application of thermal analysis methods to the decomposition of sodium bicarbonate. *Isr. J. Chem.* 9 (1971) 613
- SIMIONESCU, CR., PASTRAVANU, M. (Inst. Politech. Jassy, Jassy, Roumania): Contributions à la synthèse du 5-éthylnylacénaphthène et à sa polymérisation thermique. *Bull. Acad. Pol. Sci. Chim.* 19 (1971) 523
- SIMON, J., DEBRECZENY, E. (Techn. Univ., Inst. Gen. and Anal. Chem., Budapest 11, Hungary): 1/T Heating program in reaction kinetic studies. *J. Thermal Anal.* 3 (1971) 301
- SIMSA, Z., HOLBA, P. (Czech. Acad. Sci., Inst. Solid State Phys., Prague, Czechoslovakia): Investigation of the phase transition in $\text{Cu}_{0.5}\text{Fe}_{2.5}\text{O}_4$ by DTA. *J. Thermal Anal.* 3 (1971) 17
- SLACK, G. A., AUSTERMANN, S. B. (Gen. Electr. Res. and Dev. Ctr., Schenectady, N. Y., 12301 USA): Thermal conductivity of BeO single crystals. *J. Appl. Phys.* 42 (1971) 4713
- ŚLIWIOK, J., KOWALSKA, T. (Silesian Univ., Dept. Org. Chem., Katowice, Poland): The DTA investigations of thermal resistance of autoxidation products cummulated in oxidized oleyl alcohol, oleic acid and methyl oleate. *Thermochim. Acta* 3 (1972) 247
- SMIRNOVA, M. N., KRESTOVNIKOV, A. N., BERSHAK, V. I.: Quantitative thermography method in determining thermal effect of reactions. *Zh. Fiz. Khim.* 45 (1971) 2925 (In Russian)
- SMIRNOVA, O. V., MIKITAEV, A. K., KOLESNIKOV, G. S. (D. I. Mendeleev Chem. Technol. Inst., Moscow, USSR): On some thermodynamic parameters of melting of polycarbonates. *Vysokomol. Soedin Ser. B* 13 (1971) 795 (In Russian)
- SOKOLOVA, I. D., MARKINA, I. B., SOKLAKOV, A. I., VOSKRESENSKAYA, N. K. (N. S. Kurnakov Gen. and Inorg. Chem. Inst., Moscow, USSR): The properties of silver metaphosphates in a solid state and in melts. *Izv. Akad. Nauk SSSR, Neorg. Mater.* 8 (1972) 101 (In Russian)
- SONDERMANN, U. (Philipps Univ., Mineralog. Inst., Marburg 3550, GFR): Zur Temperaturabhängigkeit der magnetischen Suszeptibilität von TB-Verbindungen im NiAs-Typ und ähnlichen Strukturen. *Z. Angew. Phys.* 32 (1971) 135
- SOROKIN, G. A.: Thermographic study of plasticized systems. On the influence of the kind and amount of plasticizer on the glass transition temperatures of polymer. *Vysokomol. Soedin Ser. A* 13 (1971) 2577 (In Russian)
- SORELL, S. A. (Univ. Missouri, Dept. Ceramic Engn., Rolla, Miss., 65401 USA): Thermal expansion of Pb_3O_4 . *Am. Ceram. Soc.* 54 (1971) 501
- SOWELL, R. R., KARNOWSKY, M. M., WALTERS, L. C. (Sandia Labs., Albuquerque, New Mexico, USA): The transitions in phases II - III - IV in high purity ammonium nitrate. *J. Thermal Anal.* 3 (1971) 119
- STOTT, F. H., WOOD, G. C. (Univ. Manchester, Inst. Sci. and Technol., Dept. Chem. Engn., Manchester, M60 1QD, England): The mechanism of oxidation of Ni-Cr-Al alloys at 1000°-1200°C. *Corros. Sci.* 11 (1971) 799
- STRAUMANIS, M. E., WOODARD, C. L. (Univ. Missouri, Dept. Met. Engn., Rolla, Miss., 65401 USA): Lattice parameters and thermal expansion coefficients of Al, Ag and Mo at low temperatures. Comparison with dilatometric data. *Acta Crystallogr. A* 27 (1971) 549
- SUITO, H., GASKELL, D. R. (Univ. Pennsylvania, Sch. Met. and Mat. Sci., Philadelphia, Pa., 19104 USA): The thermodynamics of melts in the system $\text{VO}_2-\text{V}_2\text{O}_5$. *Met. Trans.* 2 (1971) 3299
- SVIRBELY, W. J., WEST, E. D., KUNDELL, F. A. (Univ. Maryland, Dept. Chem., College Park, Maryland, 20742 USA): The analysis of solution kinetics data coupled with thermal transients in an

- adiabatic calorimeter. II. First-order reactions. *J. Phys. Chem.* 75 (1971) 4039
- SVIRIDOV, B. D., NIKIFOROV, G. A., ERSHOV, V. V. (Acad. Sci. USSR, Chem. Phys. Inst., Moscow, USSR): Thermal decomposition of 2,6-di-tert butyl-p-benzoquinone-diazide in ketones. *Izv. Akad. Nauk SSSR, Ser. Khim.* (1971) 2420 (In Russian)
- SZAMMER, J., NOSZKÓ, L. (Acad. Sci. Hung., Cent. Res. Inst. Chem., Budapest 2, Hungary): Investigation of the thermal decomposition of potassium benzoate in the presence of cadmium and zinc compounds. *J. Thermal Anal.* 3 (1971) 149
- TAKAHASHI, M. (Univ. Tottori, Fac. Engn., Tottori, Japan): Preparation of manganese bismuthide by the solid diffusion method and its thermal and magnetic properties. *Trans. Jap. Inst. Metals* 12 (1971) 307.
- TAKAHASHI, K., TAKANI, M. (Univ. Kanazawa, Fac. Pharm. Sci., Takkramachi Kanazawa, Japan): Usmic acid. IX. The pyrolysis of tetrahydrodesoxyusnic acid. (1). *Chem. Pharm. Bull.* 19 (1971) 2079
- TAKITA, K., HAGIWARA, T., TANAKA, S. (Univ. Tokyo, Fac. Engn., Bunkyo, Tokyo, Japan): Galvanomagnetic effects in *p*-type tellurium at low temperatures. I. *J. Phys. Soc. Jap.* 31 (1971) 1469
- TAMARIN, P. V., SHALYT, S. S.: Thermal conductivity and thermoelectric power of indium arsenide at low temperatures. *Sov. Phys.-Semicond. Engl. Transl.* 5 (1971) 1097
- TAMARIN, P. V., SHALYT, S. S.: Thermo-emf of n-InSb at low temperatures. *Sov. Phys.-Solid State Engl. Transl.* 13 (1971) 1186
- TANJI, Y. (Tohoku Univ., Res. Inst., Iron, Steel and other Met., Sendai, Japan): Thermal expansion coefficient and spontaneous volume magnetostriiction of Fe-Ni(fcc) alloys. *J. Phys. Soc. Jap.* 31 (1971) 1366
- TARDY, M., BREGEAULT, J.-M., PANNETIER, G. (CNRS, Univ. Paris, Paris 5^e, France): Étude des processus de dégradation thermique des sels doubles hydratés. IV. Sur l'existence et la caractérisation d'un nouveau composé $Cs_2Cu_2(OH)(SO_4)_2 \cdot 2H_2O$. *Bull. Soc. Chim. Fr. A* (1971) 3935
- TEMESVÁRI, I., LIPTAY, G., PUNGOR, E. (Chem. Works Richter Gedeon Ltd., Anal. Lab., Budapest 10, Hungary): Determination of maleic acid and fumaric acid in the presence of each other by thermal analysis. *J. Thermal Anal.* 3 (1971) 293
- TESELKIN, V. I., SHAPIRO, G. I.: Quartz dilatometer used to study the kinetics of polymer crystallization. *Zavod. Lab.* 37 (1971) 1364 (In Russian)
- TETSU, K., IVANOV-EMIN, B. N., KORTAEVA, L. G. (P. Lumumba Univ., Moscow, USSR): Thermal decomposition of double scandium and ammonium selenate. *Zh. Neorg. Khim.* 16 (1971) 2656 (In Russian)
- TEXIER, F., CARRÉ, R. (Univ. Rennes I, Unité Étud. Rech., Rennes, France): Cycloadditions dipolaires-1,3 sur des composés à liaison éthylénique activée. IX. Addition des azidobenzènes aux esters arylidène ou éthylidène maloniques et aux esters α -acryliques. Thermolyse des triazolines obtenues. *Bull. Soc. Chim. Fr. A* (1971) 4119
- THOMAS, G., GRUFFAT, J. J., SOUSTELLE, M. (Lab. Cinét. Hétérog., Dept. Chem., Ecole Natl. Supér. Miner, 42-Saint Etienne, France): Intérêt et obtention des courbes vitesse/degré d'avancement en cinétique hétérogène. *J. Thermal Anal.* 3 (1971) 137
- THORNE, J. M., SLAUGHTER, H. (Brigham Young Univ., Dept. Chem., Provo, Utah, 84601 USA): Liquid water cluster sizes. *Thermochim. Acta* 3 (1972) 181
- TILL, L. (Deutsche Akademie der Wissenschaften zu Berlin, Zentralinstitut für Physikalische Chemie, 1199 Berlin, GDR): Thermochemical data of barium peroxide from thermogravimetric measurements. *J. Thermal Anal.* 3 (1971) 177
- TINSLEY, D. M., SHARP, J. H. (Univ. Sheffield, Dept. Ceram. Refract. Techn., Sheffield, S1 3JD, England): Thermal analysis of manganese dioxide in controlled atmospheres. *J. Thermal Anal.* 3 (1971) 43
- TISCHER, P. (Siemens AG, Forsch. Lab., München 8000, GFR): Temperaturabhängigkeit der Ummagnetisierungsprozesse in EuS- und Eu_{1-x}Gd_xS-Schichten. *Z. Angew. Phys.* 32 (1971) 89
- TISSOT, B.: The formation of hydrocarbons in the thermal decomposition of the organic matter. *Z. Angew. Geol.* 17 (1971) 406 (In German)
- TITOVA, L. F., OSOKIN, YU. G., GARBER, T. K.,

- LISITSYN, D. M., CHAPLITS, D. N. (Yaroslavl Synth. Rubber Monomer Inst., Yaroslavl, USSR): Thermal isomerization of vinylnorbornene. *Zh. Org. Khim.* 7 (1971) 2286 (In Russian)
- TKACH, G. F., YURCHAK, R. P.: Application of periodic temperature oscillations to high-temperature studies of the thermal properties of dielectrics. *High Temp. USSR, Engl. Transl.* 9 (1971) 187
- TRAHANOVSKY, W. S., ONG, C. C., PATAKY, J. G., WEITL, F. L., MULLEN, P. W., CLARDY, J. C., HANSEN, R. S. (Iowa State Univ. Sci. and Technol., Dept. Chem., Ames, Iowa, 50010 USA): Organic oxalates. VI. Pyrolysis of di-(α -substituted benzyl) oxylates. *J. Org. Chem.* 36 (1971) 3575
- TRETYAKOV, YU. D., GORDEEV, I. V., KAMYSHOVA, V. K. (M. V. Lomonosov State Univ., Moscow, USSR): The microcalorimetric enquiry into the active forms of zinc oxide. *Izv. Akad. Nauk SSSR, Neorg. Mater.* 7 (1971) 2199 (In Russian)
- TREVERTON, J. A., MARGRAVE, J. L. (c/o Margrave, J. L., Rice Univ., Dept. Chem., Houston, Texas, 77001 USA): Levitation calorimetry. IV. The thermodynamic properties of liquid cobalt and palladium. *J. Phys. Chem.* 75 (1971) 3737
- TRIPPLETT, B. B., PHILLIPS, N. E. (Lawrence Radiat. Lab., Inorg. Mat. Res. Div., Berkeley, Calif., 94720 USA): Low-temperature heat capacity of $Ni_{0.62}Rh_{0.38}$. *Phys. Lett. A*, 37A (1971) 443
- TRIPPLETT, B. B., PHILLIPS, N. E. (Lawrence Berkeley Lab., Inorg. Mat. Res. Div., Berkeley, Calif., 94720 USA): Calorimetric evidence for a singlet ground state in CuCr and CuFe. *Phys. Rev. Lett.* 27 (1971) 1001
- TRISCHLER, F. (Hungarian Optical Works, Budapest 12, Hungary): Problems of aluminium determination by means of "Dirrethermom" apparatus. *MOM Rev. No. 3* (1971) 3
- TSUTSUMI, K., TAKAHASHI, H. (Univ. Tokyo, Inst. Ind. Sci., Minato, Tokyo, Japan): A study of the nature of active sites on zeolites by the measurement of heat of immersion. II. Effects of silica alumina ratio to electrostatic-field strength of calcium-exchanged zeolites. *J. Phys. Chem.* 76 (1972) 110
- TURCOTTE, R. P., CHIKALLA, T. D., EYRING, L. (Battelle Mem. Inst., Pacific N.W. Labs., Richland, Wash., 99352 USA): Oxygen decomposition pressures and thermodynamic data for nonstoichiometric berkelium oxide. *J. Inorg. Nucl. Chem.* 33 (1971) 3749
- UGAI, YA. A., PSHESTANCHIK, V. R., ANOKHIN, V. Z., GUKOV, O. YA. (Voronezh State Univ., Voronezh, USSR): The temperature dependence of the dissociation and the thermodynamic parameters of CuP_2 . *Izv. Akad. Nauk SSSR, Neorg. Mater.* 8 (1972) 40 (In Russian)
- UNRINE, G., FENICHEL, H. (Univ. Cincinnati, Dept. Phys., Cincinnati, Ohio, 45221 USA): Specific heat of lanthanum nickel double nitrate. *J. Chem. Phys.* 55 (1971) 4673
- URZENDOWSKI, S. R., GUENTHER, A. H. (Univ. Albuquerque, Albuquerque, New Mexico, USA): Kinetic constants of polymeric materials from thermogravimetric data. *J. Thermal Anal.* 3 (1971) 379
- USUBALIEV, D., BATKIBEKOVA, M. (Frunze Polytech. Inst., Frunze, KirSSR): Standard heat of formation of cesium thiocyanate. *Zh. Fiz. Khim.* 45 (1971) 2955 (In Russian)
- VAN CONG, H., MESNARD, G. (Univ. Claude Bernard, Lab. Electr. and Phys. Solid., 69-Villeurbanne, France): Conductivity and Hall effect of heavily doped semiconductors at low temperatures in a weak magnetic field. *Phys. Status Solidi B-Basic Res.* 49 (1972) 179
- VAN CONG, H., MESNARD, G. (Univ. Claude Bernard, Lab. Electr. and Phys. Solid., 69-Villeurbanne, France): Electronic specific heat of heavily doped semiconductors in a weak magnetic field. *Phys. Status Solidi B-Basic Res.* 48 (1971) 675
- VAN MAAREN, M. H., BUSCHOW, K. H. J., VAN DAAL, H. J. (N. V. Philips Gloeilampenfabrieken, Philips Res. Labs., Eindhoven, Netherlands): Low-temperature specific heat of $CeAl_3$ and related compounds. *Solid State Commun.* 9 (1971) 1981
- VASILKOVA, I. V., SUSAREV, M. P., KOZHINA, I. I., YANOVSKAYA, L. N.: Thermographic and roentgenographic study of the $NaCl$, $CrCl_3$, VCl_3 ternary system. *Zh. Prikl. Khim.* 44 (1971) 2324 (In Russian)

- VECHER, R. A., MEDVEDEVSKAYA, L. S., TSYGANOK, V. V. (V. I. Lenin State Univ. Minsk, BeSSR): Thermodynamics of melts of silvercadmium-antimony ternary system ($N_{Ag} : N_{Sb} = 1 : 3$ and $N_{Ag} : N_{Sb} = 3 : 1$). *Zh. Fiz. Khim.* 45 (1971) 2681 (In Russian)
- VERMA, V. N. (Banaras Hindu Univ., Dept. Spectroscopy, Varanashi 5, India): Thermodynamic functions of the three isomeric aminophenols. *Ind. J. Phys.* 44 (1970) 369
- VIGNERON, B., FAIVRE, R. (CNRS, École Natl. Super. Met. and Ind. Min., Nancy 54, France): Application de l'analyse thermique différentielle à la mise en évidence des dépôts d'austénite, de cémentite et de graphite au cours de la solidification d'alliages Fe - C, Fe - C - Cr et Fe - C - Si de type fonte. *Compt. Rend. Ser. C* 273 (1971) 943
- VILTANGE, M. (CNRS, Lab. Rech. Microanal., Ecole Natl. Super. Chim., Paris 5^e, France): Contribution à l'étude de l'oxyde de cadmium en milieu alcalin. I. Étude de l'oxydation du cadmium en milieu alcalin. *J. Thermal Anal.* 3 (1971) 265
- VILTANGE, M. (CNRS, Lab. Res. Microanal., Ecole Natl. Super. Chim., Paris 5^e, France): Contribution à l'étude de l'oxyde de cadmium en milieu alcalin. II. Etude du système de l'oxyde de cadmium-hydroxyde de sodium. *J. Thermal Anal.* 3 (1971) 359
- VISWANATHAN, B., GOPALAKRISHNAN, J., SRINIVASAN, V., SASTRI, M. V. C. (Indian Inst. Technol., Dept. Chem., Madras, India): Thermal decomposition of hydrated iron(II) oxalate and manganese(II) oxalate in vacuum. *J. Thermal Anal.* 3 (1971) 429
- VORTECH, O., VACHUSKA, J. (Czech. Acad. Sci., Nucl. Res. Inst., Rez, Czechoslovakia): DTA studies on the barium-sulphate-calcium sulphate eutectoid mixture. *J. Thermal Anal.* 3 (1971) 35
- VOLNOV, I. I. (N. S. Kurnakov Gen. and Inorg. Chem. Inst., Moscow, USSR): Enthalpy of formation of solid peroxides and superoxides of alkali metals as function for serial number of element. *Zh. Fiz. Khim.* 45 (1971) 2905 (In Russian)
- VOROBEV, M. P., CHERNAKOV, A. E., SKIBA, O. V., DESYATNIK, V. N.: Thermography of $PbCl_2 - PuCl_3$, $ThCl_4 - PuCl_3$ binary salt systems. *Zh. Neorg. Khim.* 16 (1971) 3388
- VOROBEV, A. M., EVSEEEVA, G. V., ZENKEVICH, L. V. (M. V. Lomonosov State Univ., Chem. Fac., Moscow, USSR): Thermodynamics of indium nitride. *Zh. Fiz. Khim.* 45 (1971) 2650 (In Russian)
- VŘEŠTÁL, J., KUČERA, J. (Czechoslovak Acad. Sci., Inst. Phys. Met., Brno, Czechoslovakia): Vapor pressure and thermodynamic study of the Co-Ni system. *Met. Trans.* 2 (1971) 3367
- WACHI, F. M., GILMARTIN, D. E., DRÓ, J., UPDEGROVE, W. S. (Aerospace Corp., Mat. Sci. Lab., El Segundo, Calif., 90245 USA): Differential thermal analysis and gas release studies of Apollo 11 samples. *Icarus* 15 (1971) 304
- WAGNER, D. K. (Cornell Univ., Lab. Atom and Solid State Phys., Ithaca, N. Y., 14850 USA): Lattice thermal conductivity and high-field electrical and thermal magnetoconductivities of tungsten. *Phys. Rev. B* 5 (1972) 336
- WAJNBLAT, YU. M., GORELIK, S. S., SAGALOVA, T. B.: Influence of determination temperature on recrystallization in technical aluminium. *Fiz. Metal. Metalloved.* 32 (1971) 874 (In Russian)
- WAKIHARA, M., KATSURA, T. (Tokyo Inst. Technol., Dept. Chem., Okayama, Meguro-ku, Japan): The phase equilibria in the $FeO - Fe_2O_3 - V_2O_3$ system at 1500°K. *Bull. Chem. Soc. Jap.* 44 (1971) 3043
- WARNE, S. ST. J., MACKENZIE, R. C. (Univ. Newcastle, Dept. Geol., New South Wales, Australia): The thermal dissociation of some carbonate minerals. *J. Thermal Anal.* 3 (1971) 49
- WATERS, J. A., VICKROY, V. V., MORTIMER, G. A. (Monsanto Co., Texas City, Texas, 77950 USA): Thermolysis of di- γ -cyclopentadienyl- σ -organotitanium chlorides. *J. Organometal Chem.* 33 (1971) 41
- WATSON, J. L., GORE, W. G., SPEARS, A. B., WOLFE, P. A. (Atom Weap Res. Estab., Aldermaston, Berks., England): A new scanning thermometer. *J. Phys. E-Sci. Instrum.* 4 (1971) 1029
- WAXLER, R. M., CLEEK, G. W. (NBS, Inst. Mat. Res., Washington, D. C., 20234 USA): Refractive indices of fused silica

- at low temperatures. *J. Res. Natl. Bur. Stand. A, Phys. Chem.* 75 (1971) 279
- WENDTLANDT, W. W., SIMMONS, E. L. (Thermochem. Lab., Dept. Chem., Univ. Houston, Texas, 77004 USA): A thermoanalytical investigation of the thermal deaquaion of $\text{BaCl}_2 \cdot 2\text{H}_2\text{O}$ and $\text{BaBr}_2 \cdot 2\text{H}_2\text{O}$. *Thermochim. Acta* 3 (1972) 171
- WENTRUP, C., GAUGAZ, M. (Univ. Lausanne, Inst. Chim. Org., Lausanne, Switzerland): On the mechanism of the thermal and photolytic cyclization of diphenylamines to carbazoles. *Helv. Chim. Acta* 54 (1971) 2108
- WEST, E. D., SVIRBELY, W. J. (c/o Svirbely, W. J., Univ. Maryland, College Park, Dept. Chem., Maryland, 20742 USA): The analysis of solution kinetics data coupled with thermal transients in an adiabatic calorimeter. I. *J. Phys. Chem.* 75 (1971) 4029
- WHITE, A. D., SHARP, J. H. (c/o Sharp, J. H., Univ. Sheffield, Dept. Ceramics, Sheffield, S 1 3JD, England): Thermal behaviour of iron containing micas in oxidising, reducing, and neutral atmospheres. *J. Chem. Soc. A* (1971) 3062
- WIEL, J. B. (Ctr. Sci. Univ. Le Mans, Le Mans 72, France): Préparation et étude thermochimique des formiates amminés d'uranyle et de chrome(III). *Bull. Soc. Chim. Fr. A* (1971) 3909
- YAMAMOTO, O., KAMBE, H. (Univ. Tokyo, Inst. Space and Aeronaut. Sci., Moguro-ku, Tokyo, Japan): Thermal conductivity of cross-linked polymers. A comparison between measured and calculated thermal conductivities. *Polym. J.* 2 (1971) 623
- YAMAZAKI, M., NOZAKI, H. (Univ. Tokyo, Inst. Ind. Sci., Minato, Tokyo, Japan): Transient phenomena caused by temperature change on capacitance of Ti-TiO₂-metal systems. *Jap. J. Appl. Phys.* 10 (1971) 1529
- YATES, B. L., RAMIREZ, A., VELASQUEZ, O. (Univ. Valle, Dept. Quim., Cali, Colombia): The thermal decomposition of β -hydroxy esters. *J. Org. Chem.* 36 (1971) 3579
- YEREMENKO, V. N., LUKASHENKO, G. M., KHMELENKO, G. I.: Thermodynamic properties of gold manganese alloys. *Ukr. Khim. Zh.* 37 (1971) 1206 (In Russian)
- ZINOVIK, M. A., SHCHEPETKIN, A. A., CHUFAROV, G. I. (Acad. Sci. USSR, Met. Inst., Sverdlovsk, USSR): Effect of heat treatment on crystalline structure and magnetic properties of solid solutions of ferrites on manganese, monovalent and bivalent copper. *Zh. Neorg. Khim.* 16 (1971) 2688 (In Russian)
- ZINOVIEV, V. E., KORSHUNOV, I. G., GELD, P. V. (S. M. Kirov Polytech. Inst., Sverdlovsk, USSR): The effect of thermal vacancies on platinum heat capacity at high temperatures. *Fiz. Tverd. Tela* 13 (1971) 3459 (In Russian)