

Bibliography Section

- ABE, K., OHNO, H., NII, A., TSUCHIDA, E. (c/o E. Tsuchida, Waseda Univ., Dept. Polymer Chem., Tokyo, 160 Japan): Calorimetric study on formation of polymer complexes through electrostatic interaction and hydrogen bonding. *Makromol. Chem.* 179 (1978) 2043
- ABE, Y., SAKAMOTO, R. (Gifu Univ., I. R. Tech. Coll., Dept. Textile Ind., Kakamigahara, Gifu, 504 Japan): Dynamic viscoelasticity and thermal behavior of aminolyzed poly(ethyene terephthalate) fiber. *Jap. Polym. Sci. Techn.* 35 (1978) 587
- ABDIKAMALOV, B. A., IVANOV, V. I., SHEKHTMAN, V. S., SHLYTKO, I. M.: Study of low-temperature transformations in proustite crystals. *Fiz. Tverd. Tela* 20 (1978) 2963 (In Russian)
- ABDUL-RASOUL, F. A. M., LEDWITH, A., YAGCI, Y. (Univ. Liverpool L69 3BX, Lancashire, England): Photochemical and thermal cationic polymerizations promoted by free radical initiators. *Polymers* 19 (1978) 1219
- ABELIOV, Y. A., NIKOLSKY, V. G., KIRILLOV, V. N., ALEKSEEV, B. F.: Thermal properties and relaxation transitions in copolymers of dimethylsiloxane with methyltrifluoropropylsiloxane. *Vysokomol. Soedin. A* 20 (1978) 2304 (In Russian)
- ABROSIMOV, V. K., MAKAROV, G. N., KRESTOV, G. A. (Acad. Sci. USSR, Inst. Chem. Phys., Moscow, V-71 USSR): Entropy as characteristics for structural contributions to delta G_{pc}° salts and delta G_{hydr}° ions in H_2O and D_2O at various temperatures. *Zh. Fiz. Khim.* 52 (1978) 1969 (In Russian)
- ADEOSON, S. O. (Univ. Ife, Dept. Chem., Ile Ife, Nigeria): Thermal behaviour of the system lead(II) dodecanoate/lead acetate. *Thermochim. Acta* 25 (1978) 333
- ALDABAEV, L. I., BAKHMAN, N. N., KONDRIKOV, B. N., FILIPOV, V. A. (D. I. Mendeleev Chem. Technol. Inst., Moscow, USSR): Polymer film burning on copper wires and glass fibers. *Dokl. Akad. Nauk SSSR* 241 (1978) 1109 (In Russian)
- ALIEVA, E. D., ABUBAKIROVA, S. Z., VORONENKOV, V. V., PLATÉ, N. A. (Acad. Sci. USSR, Inst. Petrochem. Synth., Moscow, V-71 USSR): Control of the polymethyl methacrylate thermal stability by introducing substituted phenols into the polymerizable system. *Vysokomol. Soedin. A* 20 (1978) 2313 (In Russian)
- ALLEGREZZA, A. E., LENZ, R. W. CORNIBERT, J., MARCHESSAULT, R. H. (Univ. Massachusetts, Dept. Chem. Engn., Amherst, Mass., 01002 USA): Polymerization of α,α -disubstituted- β -propiolactones and lactams. 10. Crystalline structure, thermal and mechanical studies of statistical and block copolymers of pivalolactone and α -methyl- α -propyl- β -propiolactone. *J. Polym. Sci. Polym. Chem. Ed.* 16 (1978) 2617
- AMAMCHYAN, R. G.: Studying phase equilibria at low-temperatures. 4. Systematization of data on solubility in liquid oxygen of low-soluble substances. *Zh. Fiz. Khim.* 52 (1978) 1909 (In Russian)
- ANDREEV, V. N., CHUDNOVSKIY, F. A., PETROV, A. V., TERUKOV, E. I. (A. F. Ioffe Engr. Phys. Inst., Leningrad, USSR): Thermal conductivity of VO_2 , V_3O_5 , and V_2O_3 . *Phys. Status Solidi A* 48 (1978) K 153
- ANDREWS, J. T. S., NORTON, P. A., WESTRUM, E. F. (Kent State Univ., Inst. Liquid Crystal, Kent, Ohio, 44242 USA):

- An adiabatic calorimeter for use at super-ambient temperatures. The heat capacity of synthetic sapphire ($\alpha\text{-Al}_2\text{O}_3$) from 300 to 550 K. *J. Chem. Thermodyn.* 10 (1978) 949
- ARASHI, H., SAKURAI, T., BADIE, J. M., ROUANET, A., FOEX, M. (Tohoku Univ.-Sci. Measurements Res. Inst., Sendai, Miyagi, 980 Japan): High temperature studies of phase diagram for the system $\text{ZrO}_2\text{-ThO}_2$ by using phase segregation, X-ray diffraction and thermal analysis. *Rev. Int. Hautes Temp. Réfract.* 15 (1978) 129 (In French)
- ARMBRÜSTER, H., STEGLICH, F. (Texas A and M Univ., Coll. Stn., Tex., 77843 USA): The specific heat of CeAl_2 between 0.02 and 1 K. *Solid State Commun.* 27 (1978) 873
- ASTAKHOVA, N. A., BONDARENKO, V. S., KUKLINA, U. F., MALCHIKOV, G. D., SHESTAKOVA, N. A.: Thermal analysis of platinum(II)glycine complexes. *Zh. Neorg. Khim.* 23 (1978) 2734 (In Russian)
- ASTAKHOVA, N. A., BONDARENKO, V. S., KUKLINA, U. F., MALCHIKOV, G. D., SHESTAKOVA, N. A.: Thermal analysis of glycine halide complexes of platinum(II). *Zh. Neorg. Khim.* 23 (1978) 2739 (In Russian)
- AVONDO, G., VOVELLE, C., DELBOURGO, R. (CNRS, Ctr. Rech. Chim. Combust. et Hautes Temp., F-45045 Orléans, France): Influence du phosphore et du brome sur la dégradation thermique du polyéthylène téraphthalate. *First. Int. Congr. Phosph. Comp., Proc. Phosph. Comp. Their Non-Fertilizer Appl., Int. between Pure and Appl. Chem., Rabat, Morocco, Okt. 17–21* (1977) 283
- BABIĆ, E., MAROHNÍČ, Ž., IVKOV, J. (Univ. Zagreb, Inst. Phys., YU-41000 Zagreb, Yugoslavia): Low temperature resistivities of $\text{Fe}_x\text{Ni}_{80-x}\text{P}_{14}\text{B}_6$ metallic glasses. *Solid State Commun.* 27 (1978) 441
- BAKULIN, S. S., ULYBIN, S. A. (Moscow Energy Inst., Moscow, USSR): Thermal conductivity of sulfur hexafluoride at temperatures of 230–350°C and pressures up to 50 MPa. *High Temp. transl. Teplofiz. Vysok. Temp.* 16 (1978) 46
- BALDWIN, A. C., DAVIDSON, I. M. T., REED, M. D. (c/o I. M. T. Davidson, Univ. Leicester, Dept. Chem., Leicester, LE1 7RH, W. Yorkshire, England): Mechanism of thermolysis of tetramethylsilane and trimethylsilane. *J. Chem. Soc. Faraday Trans. I*, 74 (1978) 2171
- BAMBERGER, C. E., BRAUNSTEIN, J., RICHAFESON, D. M. (Oak Ridge Natl. Lab., Oak Ridge, Tenn., 37830 USA): Thermochemical production of hydrogen from water. *J. Chem. Educ.* 55 (1978) 561
- BARABÁS, K., IRING, M., LÁSZLÓ-HEDVIG, Zs., KELEN, T., TÜDŐS, F. (Hung. Acad. Sci., Cent. Res. Inst. Chem., H-1525 Budapest, P. B. 17, Hungary): Investigation of the thermo-oxidative degradation of polyolefins. VIII. *Magy. Kém. Foly.* 84 (1978) 344 (In Hungarian)
- BARCLAY, J. A., PATERSON, L., BINGHAM, D., MOZE, O. (Univ. Calif., Los Alamos Sci. Lab., Los Alamos, N. M., 87545 USA): Low temperature thermal conductivity of $\text{Gd}_2(\text{SO}_4)_3 \cdot 8\text{H}_2\text{O}$ and $\text{Dy}_2\text{Ti}_2\text{O}_7$ as a function of magnetic field. *Cryogenics* 18 (1978) 535
- BARKATT, A., ANGELL, C. A. (c/o C. A. Angell, Purdue Univ., Dept. Chem., W. Lafayette, Ind., 47907 USA): Use of structural probe ions for relaxation studies in glasses. 2. Temperature-jump and temperature-ramp studies of cobalt(II) in nitrate glasses. *J. Phys. Chem.* 82 (1978) 1972
- BARNES, K., PEDLEY, J. B., WOOLDRIDGE, B. (Univ. Sussex, Sch. Molec. Sci., Brighton, BN1 9QJ, E. Sussex, England): A new approach to the computer processing of thermochemical quantities illustrated by data on C_7 bicyclic hydrocarbons from the previous paper. *J. Chem. Thermodyn.* 10 (1978) 929
- BARONCELLI, A., PISTILLI, P., SANTONI, C. (Ist. Nazl. Fis. Nucl., Ist. Super Sanità, Sezione Sanità, Pisa, Italy): Method to distinguish between electromagnetic and hadronic showers in calorimetric measurements. *Nucl. Instr. Methods* 154 (1978) 515
- BARTON, T. J., BANASIA, D. S. (Iowa State Univ., Dept. Chem., Ames, Ia., 50011 USA): Synthesis and thermochemistry of 4-diazo-1,1-dimethyl-1-silacyclohexa-1,5-diene. *J. Organometal. Chem.* 157 (1978) 255
- BELL, P. A., HOGG, D. R., ROBERTSON, A. (c/o D. R. Hogg, Univ. Aberdeen, Dept. Chem., Aberdeen AB9 2UE, Scotland):

- Thermal decomposition of sulphenyl carboxylates. *J. Chem. Soc. Perkin Trans. I* (1978) 1246
- BELYAKOVA, P. E.: True heat capacity of titanium alloys TS5 and 1. *Russ. Metal.* transl. *Izv. Akad. Nauk SSSR Metal.* (1977) 54
- BEREZIN, B. Y., CHEKHOVSKOY, V. Y.: Enthalpy of tantalum between 2400 °K and melting temperature. *Russ. Metal.* transl. *Izv. Akad. Nauk SSSR Metal.* (1977) 51
- BERNSHTEIN, M. L., MINUKHIN, Y. I., POVAR, V. I., SVERDLOVA, T. I.: Preliminary thermomechanical treatment of steel 60 KhFA. *Metal Sci. Heat Treat.* transl. *Metal. Termichesk. Obr. Metal.* 20 (1978) 27
- BERRADA, A., MERCURIO, J. P., ETOURNEAU, J., HAGENMULLER, P. (Univ. Bordeaux, 1 CNRS, Chim. Solide Lab., F-33405 Talence, France): Thermoelectronic properties of some rare earth hexaborides of CaB₆ type as the function of their surface state. *Rev. Int. Hautes Temp. Réfract.* 15 (1978) 115
- BERSHTEIN, V. A., EGOROV, V. M., RAZGULYAEVA, L. G., STEPANOV, V. A. (A. F. Ioffe Engn. Phys. Inst., Leningrad, USSR): The use of the differential scanning calorimetry method for estimating the variations in molecular interaction of glass-like polymers. *Vysokomol. Soedin. A* 20 (1978) 2278 (In Russian)
- BESSIÈRE, Y., GRISON, C., BOUSSAC, G. (Ecole Norm. Supér., Chem. Lab., CNRS, F-75231 Paris 5, France): Transpositions thérmiques de dérivés de l'- α -pinène. *Tetrahedron* 34 (1978) 1957
- BINKELE, L. (KFA Jülich GmbH, Inst. Reaktorwerkstoffe, Postfach 1913, D-5170 Jülich 1, GFR): A model for calculating the thermal conductivity of fast neutron irradiated reactor graphites. *J. Non-Equil. Thermodyn.* 3 (1978) 257
- BLAHAK, J. (Bayer A. G., Wissenschaft. Hauptlab., D-5090 Leverkusen, GFR): Base-catalyzed thermal decomposition of aryl urethanes; synthesis of 4-nitrodiphenylamines. *Justus Liebigs Ann. Chem.* (1978) 1353
- BÖHM, M., CORD, B., HOFSTAETTER, A., SCHARMANN, A., PAROT, P. (Univ. Giessen, Inst. Phys. 1, D-6300 Giessen, GFR): EPR, thermoluminescence, and thermally stimulated conductivity in BaWO₄ crystals. *J. Luminesc.* 17 (1978) 291
- BOIKOV, Y. A., GOLTSMAN, B. M., KUTASOV, V. A. (A. F. Ioffe Engn. Phys. Inst., Leningrad, USSR): Thermoconductivity of Bi₂(Te, Se)₃ films. *Fiz. Tverd. Tela* 20 (1978) 3002 (In Russian)
- BOLIS, G., RAGAZZI, M., SALVADERI, D., FERRO, D. R., CLEMENTI, E. (c/o E. Clementi, Montedison Spa, Ist. Ric. G. Donegani, Via G. Fauser 4, I-28100 Novara, Italy): Preliminary attempt to follow enthalpy of an enzymic reaction by ab initio computations. Catalytic action of papain. *Gazz. Chim. Ital.* 108 (1978) 425
- BOOTH, H., BOSTOCK, A. H., FRANKLIN, N. C., GRIFFITS, D. V., LITTLE, J. H. (Univ. Nottingham, Dept. Chem., Nottingham, NG7 2RD England): The thermal decomposition of quaternary ammonium hydroxides. 6. The importance of conformational factors in β -eliminations from quaternary hydroxides derived from piperidines, morpholines, and decahydro-quinolines. *J. Chem. Soc. Perkin Trans. II* (1978) 899
- BORKENT, J. H., LAARHOVEN, W. H. (c/o W. H. Laarhoven, Catholic Univ. Toernooiveld Dept. Org. Chem., Nijmegen, Netherlands): The thermal racemization of methyl-substituted hexahelicenes. *Tetrahedron* 34 (1978) 2565
- BORUKHOVICH, A. S., MARUNYA, M. S., BAMBUROV, V. G., IGNATEVA, N. I., SOLIN, N. I. (Acad. Sci. USSR, Ural Sci. Ctr., Inst. Chem., Sverdlovsk, USSR): Specific heat of quasi-degenerated magnetic semiconductor. *Fiz. Tverd. Tela* 20 (1978) 3107 (In Russian)
- BROS, J. P., GAUNE-ESCARD, M. (Univ. Provence, Ctr. St.-Jérôme, CNRS, Dynam. and Thermophys. Fluides Lab. 72, F-13397 Marseille, 4 France): Thermal storage molten salts. *Rev. Int. Hautes Temp. Réfract.* 15 (1978) 99
- BROUERS, F. (Free Univ. Berlin, Inst. Theoret. Phys., D-1000 Berlin 33): Temperature dependence of electrical resistivity in highly resistive alloys. *J. Phys. Lett.* 39 (1978) L 323
- BUTCHER, D. N., SEALY, B. J. (Univ. Surrey, Dept. Electr. and Electr. Engn., Guilford GU2 5XH Surrey, England): The thermal oxidation of GaAs. *J. Phys. D* 11 (1978) 1451.

- CABANI, S., CONTI, G., MATTEOLI, E. (Univ. Pisa, Ist. Chim. Fis., I-56100 Pisa, Italy): Heat capacities of hydration of saturated uncharged organic compounds at 25 °C. *J. Chem. Soc. Faraday Trans. I*, 74 (1978) 2408
- CALADO, J. C. G., DIAS, A. R., SIMOES, J. A. M., RIBEIRO DA SILVA, M. A. V. (c/o A. R. Dias, Inst. Superior Tecnico, Ctr. Quim. Estrutural, Complexo, 1 Lisboa, Portugal): Heat of formation of bis(η -cyclopentadienyl)dimethyl-tungsten and bis(η -cyclopentadienyl)dimethyl-molybdenum. *J. Chem. Soc. Chem. Comm.* (1978) 737
- CARLING, R. W. (Sandia Labs., Livermore, Calif., 94550 USA): Modification of an oxygen bomb calorimeter to measure enthalpies of reaction of liquid metals. *Rev. Sci. Instr.* 49 (1978) 1489
- CHAN, H. S. O., STILL, R. H. (CIBA Geigy U. K. Ltd., Manchester, England): Thermal degradation of polymers. XVIII. The synthesis and characterisation of quinazolone pre-polymers. *J. Appl. Polym. Sci.* 22 (1978) 2173
- CHAN, H. S. O., STILL, R. H. (CIBA Geigy U. K. Ltd., Manchester, England): Thermal degradation of polymers. XIX. The thermal cyclization and characterization of quinazolone pre-polymers. *J. Appl. Polym. Sci.* 22 (1978) 2187
- CHAN, H. S. O., STILL, R. H. (CIBA Geigy U. K. Ltd., Manchester, England): Thermal degradation of polymers. XX. The effect of thermal ageing on thermal diffusivity and hardness of polyquinazolones. *J. Appl. Polym. Sci.* 22 (1978) 2197
- CHAND, A., FENBY, D. V. (Univ. Otago, Dept. Chem., Dunedin, New Zealand): Enthalpy of deuterium exchange reactions in water + ethanol and methanol + ethanol. *J. Chem. Thermodyn.* 10 (1978) 997
- CHASE, M. W., CURNUTT, J. L., Mc DONALD, R. A. SYVERUD, A. N. (Dow Chem. Co., Thermal Res., Midland, Mich., 48640 USA): JANAF thermochemical tables, 1978 supplement. *J. Phys. Chem. Ref. Data* 7 (1978) 793
- CHIGIER, N. A., STYLES, A. C. (Univ. Sheffield Dept. Chem. Engr. and Fuel Technol., Sheffield S10 2TN, S. Yorkshire, England): Temperature, concentration, and velocity measurements in fuel spray free flames. *Evaporation - Combust. Fuels* 172nd Meeting Amer. Chem. Soc., San Francisco, Calif., Aug. 31-Sept. 1, 1976, Edit. J. T. Zung, Amer. Chem. Soc., Wash. (1978) 111
- CHOI, B., CHURCHILL, S. W. (Mobil Res. and Dev. Corp., Paulsboro, N. J., 08066 USA): Evaporation and combustion of uniformly sized hexane droplets in a refractory tube. *Evaporation - Comb. Fuels* 172nd Meeting Amer. Chem. Soc., San Francisco, Calif., Aug. 31-Sept. 1, 1976, Edit. J. T. Zung, Amer. Chem. Soc., Wash. (1978) 83
- CHRISTENSEN, J. J., ROSSITER, B. E., O'NEILL, T. K., HANKS, R. W. (Brigham Young Univ., Inst. Thermodynam., Provo, Utah, 84601 USA): The excess enthalpies of six p-xylene + alcohol mixtures at 298. 15K. *J. Chem. Thermodynam.* 10 (1978) 185
- CHRISTIANSEN, P. L., OLSEN, O. H. (Tech. Univ. Denmark, Appl. Math. Phys. Lab., DK-2800 Lyngby, Denmark): Return effect for rotationally symmetric solitary wave solutions to the sine-Gordon equation. *Phys. Lett. A* 68 (1978) 185
- CHVALUN, S. N., OZERIN, A. N., ZUBOV, Y. A., GODOVSKY, Y. K., BAKEJEV, N. F. (L. Y. Karpov Physicochem. Res. Inst., Moscow, USSR): Calorimetric study of elastic loading process of linear polyethylene with different structure of amorphous regions. *Vysokomol. Soedin.* 20 (1978) 672 (In Russian)
- CIMMINO, S., GRECO, R., MARTUSCELLI, E., NICOLAIS, L., SILVESTRE, C. (Lab. Ricerche Tecnol. Polymeri e Reol., Via Toiano 2, Arco Felice, Italy): Blends of poly(ethylene oxide) samples of different molecular weights: thermal and mechanical properties. *Polymer* 19 (1978) 1079
- CIMMINO, S., MARTUSCELLI, E., NICOLAIS, L., SILVESTRE, C. (CNR Ric. Tecnol. Polimeri e Reol. Lab., Via Toiano 2, Naples, Italy): Thermal and mechanical properties of isotactic random propylene-butene-1 copolymers. *Polymer* 19 (1978) 1222
- CLARKE, J. A., FRAY, D. J. (Imperial Smelting Process Ltd., Dept., Res., Avonmouth, England): The standard Gibbs free energy of the reaction $Zn_{(g)} + H_2O_{(g)} = ZnO_{(s)} + H_{2(g)}$ over the temperature range 900 to 1300 K. *J. Chem. Thermodyn.* 10 (1978) 892
- COEY, J. M. D., VON MOLNAR, S. (CNRS, Transit. Phases Grp., B. P. 166, F-38042

- Grenoble, France): Linear specific heat of an amorphous magnet due to single-ion excitations. *J. Phys. Lett.* 39 (1978) L 327
- CONARD, B. R., MCANENEY, T. B., SRIDHAR, R. (INCO Met. Co., J. Roy Gordon Res. Lab., Sheridan Pk., Mississauga, L5K 129 Ontario, Canada): The enthalpy of transition and the enthalpy of fusion of silver sulfate. *J. Chem. Thermodyn.* 10 (1978) 889
- CORBALLY, R. P., PERKINS, M. J., CARSON, A. S., LAYE, P. G., STEELE, V. W. (c/o M. J. Perkins, Univ. London, Chelsea Coll. Sci. and Technol., Dept. Chem., London, SW3 6LX, England): Standard enthalpies of formation of cis- and trans-bicyclo [6.1.0] nonanes. *J. Chem. Soc. Chem. Comm.* (1978) 778
- COUCHON, M., HONG, P. N., DELMAS, G. (c/o G. Delmas, Univ. Quebec, Dept. Chim., Montreal, H3C 3P8 Quebec, Canada): Heats and free energies of mixing of tridodecyl-amine with nine heptane isomers, two octanes, and one hexane. Disorder and steric hindrance contributions. *Can. J. Chem.* 56 (1978) 2472
- D'ASCENSO, G., MARINO, A., SABBATINI, M., BICA, T. (Univ. Rome, Inst. Analyt. Chem., I-00100 Rome, Italy): A thermoanalytical study of dipicolinic acid acting as a terdentate ligand in coordination compounds of divalent metal ions. *Thermochim. Acta* 25 (1978) 325
- DEACON, G. B., PHILLIPS, R. J. (Monash Univ., Dept. Chem., Clayton, 3168 Victoria, Australia): Organothallium compounds. XIV. Thermal decomposition of some polyfluorobenzoatobis(polyfluorophenyl) thallium(III) compounds. *Aust. J. Chem.* 31 (1978) 1709
- DERNOV-PEGAREV, V. F., KHARLAMOV, E. S.: Thermometry of inclusions in synthetic and natural crystals of calcite and some problems of the forming of carbonates. *Geochemistry* (1978) 1332 (In Russian)
- DERYAGINA, E. N., KUZNETSOVA, M. A., BANNIKOVA, O. B., VORONKOV, M. G. (Acad. Sci. USSR, Irkutsk, USSR): Thermal conversions of 2,4,6-trimethyl-1,3,5-trithiane. *Zh. Org. Khim.* 14 (1978) 2012 (In Russian)
- DHARWADKAR, S. R., CHANDRASEKHARAIAH, M. S., KARKHANAVALA, M. D. (Bhabha Atom Res. Ctr., Div. Chem., Bombay, 400085 India): Evaluation of kinetic parameters from thermogravimetric curves. *Thermochim. Acta* 25 (1978) 372
- DJORDJEVIĆ, Z., MILOSEVIĆ, S. (Inst. Phys., P. O. B. 57, Belgrade, Yugoslavia): Effect of the spin-lattice coupling on the magnetic specific heat in the case of a three dimensional lattice and a one-dimensional Ising magnet. *J. Phys. C II* (1978) L 661
- DOI, K. (Nagoya Inst. Technol., Dept. Synthet. Chem., Showa-ku, Nagoya, Aichi, 466 Japan): The heat of formation of 1 : 1 thorium(IV)-EDTA chelate. *J. Inorg. Nucl. Chem.* 40 (1978) 1639
- DOWKER, J. S. (Univ. Manchester, Dept. Theoret. Phys., Manchester, M13 9PL Lancashire, England): Thermal properties of Green's functions in Rindler, de Sitter, and Schwarzschild spaces. *Phys. Rev. D* 18 (1978) 1856
- DRAPER, C. W., ROSENBLATT, G. M. (Western Elect. Co. Inc., Engn. Res. Ctr., Princeton, N. J., 08540 USA): Thermal accomodation coefficients by high speed vibration of solid samples. V. Translational and internal gas — solid energy exchange for alkanes and other molecular gases. *J. Chem. Phys.* 65 (1978) 1465
- DRUZHININA, A. I., VARUSHCHENKO, R. M. (M. V. Lomonosov State Univ., Moscow, 117234 USSR): Calculation of heat of evaporation according to precision data on saturated vapor pressure. *Zh. Fiz. Khim.* 52 (1978) 1927 (In Russian)
- DUBROVIN, A. V., ALEKSANDROV, V. V., DUNAEVA, K. M., MOROZOV, V. G., BOLDYREV, V. V., SPITSYN, V. I.: Thermal decomposition of potassium acetate. *Zh. Neorg. Khim.* 23 (1978) 2317 (In Russian)
- DWORKIN, A., UBBELOHDE, A. R. (Univ. London, Imperial Coll. Sci. and Technol., Dept. Chem. Engn. and Chem. Technol., London, SW7 2AZ England): Differential scanning calorimetry of intercalation compounds of graphite. *Carbon* 16 (1978) 291
- DYAKONOV, M. N., ZAMYSLOVSKII, M. G., KOSTROV, D. V., MUZHDA, V. M., KHANIN, S. D., SHELEKHIN, Y. L.: Study on electron spectra of niobium oxide by optical and thermal methods. *Fiz. Tverd. Tela* 20 (1978) 2801 (In Russian)

- EARNEST, C. M. (N. E. Louisiana Univ., Monroe, La., 71209 USA): Chemical instrumentation. A set of experiments involving thermal methods of analysis for undergraduate chemistry laboratory. *J. Chem. Educ.* 55 (1978) A 331
- EATOUGH, D. J., JENSEN, T. E., HANSEN, L. D., LOKEN, H. F., REHFELD, S. J. (Brigham Young Univ., Inst. Thermo-chem., Provo, Utah, 84602 USA): The binding of Ca^{2+} and Mg^{2+} to human serum albumin: a calorimetric study. *Thermochim. Acta* 25 (1978) 289
- ELFAYOUMI, A. A. Z., ABOUALI, S. (Ain Shams Univ., Fac. Educ., Dept. Chem., Cairo, Egypt): Thermal behaviour of some cross-linked epoxy polydienes. *Indian J. Chem. A* 16 (1978) 395
- ELMAHALLAWY, N. A., FARAG, M. M. (Ain Shams Univ., Dept. Prod. Engr., Cairo, Egypt): Effect of some thermal parameters on directional solidification process. *J. Cryst. Growth* 44 (1978) 251
- ESPOSITO, F. P., NEWROCK, R. S., LOEFFLER, K. (Univ. Cincinnati, Dept. Phys., Cincinnati, Ohio, 45221 USA): Effects of voids on the thermal magnetoresistivity of metals. *Phys. Rev. Lett.* 41 (1978) 818
- EVANS, P. J., ICHIMURA, T., TSUIKOWROUX, E. (Univ. Calgary, Dept. Chem., Calgary, T2N 1N4 Alberta, Canada): Comparison of 2 single-pulse shock-tube techniques. Thermal decomposition of ethyl chloride and N-propyl chloride. *Int. J. Chem. Kinet.* 10 (1978) 855
- FEDOSOV, V. N., KAMYSHNIKOV, G. R. (Voronezh Polytech. Inst., Voronezh, USSR): Temperature dependence of parameters of domain boundaries in Ising model. *Fiz. Tverd. Tela* 20 (1978) 2828
- FEUGIER, A. (Inst. Français Pétr., 1 et 4 Ave. Bois Préau, Boite Postale 18, F-92502 Rueil Malmaison, France): Effect of metal additives on amount of soot emitted by premixed hydrocarbon flames. *Evaporation — Comb. Fuels, 172nd Meeting Amer. Chem. Soc., San Francisco, Calif., Aug. 31-Sept. 1, 1976, Edit. J. T. Zung, Amer. Chem. Soc., Wash.* (1978) 178
- FILIPPOV, V. K. (A. A. Zhdanov State Univ., Leningrad, B-164 USSR): On the heat capacity of multicomponent heterogeneous systems. *Dokl. Akad. Nauk SSSR* 242 (1978) 376 (In Russian)
- FILIPPOVA, L. M., ZEBREVA, A. I., KOROBKINA, N. P. (Kazakh State Univ., Alma Ata, KaSSR): Studies of potassium — lead amalgams by the method of interrupted thermometer titration. *Ukr. Khim. Zh.* 44 (1978) 791 (In Russian)
- FISHER, R. A., HORNING, E. W., BRODALE, G. E., GIAUQUE, W. F. (Univ. Calif. Berkeley, Dept. Chem. Low Temp. Lab., Berkeley, Calif., 94720 USA): Magneto-thermodynamics of antiferromagnetic, polarized ferroelectric, ferroelastic $\beta\text{-Gd}_2(\text{MoO}_4)_3$. V. Thermodynamic, temperature and other properties with heat introduction below 0.5 °K. Fields to 5 kG along the b crystal axis. *J. Chem. Phys.* 69 (1978) 2892
- FOORD, E. E., CUNNINGHAM, C. G. (U. S. Geol. Survey, Denver, Colo., 80225 USA): Thermal transformation of anomalously biaxial dimetric crystals. *Amer. Miner.* 63 (1978) 747
- FURMAN, N. I. (Acad. Sci. UkrSSR, Inst. Tech. Thermophys., Kiev, UkrSSR): Concentration diffusion of reagents and reaction products in thermochemical gas analyzer with a porous flamebarrier. *Dokl. Akad. Nauk Ukr. SSR* 17 (1978) 746 (In Ukrainian)
- FURUTANI, Y., HONDA, T., TANNO, K. (Hitachi Ltd., Res. Lab., Hitachi, Japan): Thermodynamic investigation on new thermochemical water-decomposition cycles. *J. Electrochem. Soc. Jap.* 46 (1978) 485
- GAVRILOVA, L. A., ENNAN, A. A., ANDREEVA, N. V., SAKHAROV, A. V. (I. I. Mechnikov State Univ., Odessa, UkrSSR): Thermolysis mechanism of didecylammonium and dioctadecylammonium fluorosilicates. *Zh. Neorg. Khim.* 23 (1978) 2362 (In Russian)
- GAZIZOV, M. B., ZYKOVA, T. V., ANOSHINA, N. P., SULTANOVA, D. B., SALAKHUTDINOV, R. A. (S. M. Kirov Chem. Technol. Inst., Kazan, USSR): Study of reaction of 3-coordinated phosphorus chlorides with acetic acid monoacetyl, using differential thermal analysis and P-31 nuclear magnetic resonance methods. *Zh. Obshch. Khim.* 48 (1978) 1979 (In Russian)

- GOLDFARB, L., HANN, N. D., DIECK, R. L., MESSERSMITH, D. C. (Armstrong Cork Co., Ctr. Res. and Dev., Lancaster, Pa., 17604 USA): Thermal degradation of polybis-(*p*-isopropyl-phenoxy)-phosphazene. *J. Polym. Sci.* 16 (1978) 1505
- GRASSINE, N., ZULFIQAR, M. (Univ. Glasgow, Dept. Chem., Glasgow, G12 8QQ, Scotland): Thermal degradation of the polyurethane from 1,4-butanediol and methylene bis(4-phenyl isocyanate). *J. Polym. Sci.* 16 (1978) 1563
- GREENFIELD, S., MCGEACHIN, H. McD. (Albright and Wilson Ltd., POB 80, Trinity St., Warley, B69 4LN, W. Midlands, England): Calorimetric and dimensional studies on inductively coupled plasmas. *Anal. Chim. Acta* 100 (1978) 101
- GRUSELLE, M., NEDELEC, J. Y. (c/o J. Y. Nedelec, CNRS, Gr. 12, 2 Rue H. Dunant, F-94320 Thiais, France): Polarisation nucléaire induite chimiquement: étude du mécanisme de la décomposition thermique de peracides dans l'hexachloroacetone. *Tetrahedron* 34 (1978) 1813
- GSCHNEIDNER, K. A., THOME, D. K. (Iowa State Univ., Ames Lab., U. S. Dept. Energy, Ames, Ia., 50011 USA): An explanation for the Schottky-like anomaly in the low temperature heat capacity, of Lu-H alloys. *13th Rare Earth Res. Conf. held at Wilson Lodge, Wheeling, W. Virginia, Oct. 16-19, 1977*, ed. G. J. McCarthy, S. S. Rhyne, N. Y. (1978) 75
- GUNN, S. R. (Univ. Calif., Lawrence Livermore Lab., Livermore, Calif., 94550 USA): A calorimetric determination of the specific power of plutonium-239. *Int. J. Appl. Radiat. Isotop.* 29 (1978) 497
- GUPTA, A. K., BEER, J. M., STYLES, A. C. (MIT, Dept. Chem. Engn., Cambridge, Mass., 02139 USA): Potential application of a modulated swirl combustor to clean combustion of liquid fuel. *Evaporation - Comb. Fuels 172nd Meeting Amer. Chem. Soc., San Francisco, Calif., Aug. 31-Sept. 1, 1976*, Edit. J. T. Zung, Amer. Chem. Soc., Wash. (1978) 93
- HABBOUSH, D. A., KERRIDGE, D. H., TARIQ, S. A. (Univ. Basrah, Dept. Chem., Basrah, Iraq): Molten lithium carbonate — sodium carbonate — potassium carbonate eutectic: the reaction of ten main group acidic oxides and oxyanions. *Thermochim. Acta* 25 (1978) 357
- HALL, R. O. A., LEE, J. A., MARTIN, D. J., MORTIMER, M. J., SUTCLIFFE, P. W. (AERE, Div. Chem., Harwell OX11 ORA, Oxfordshire, England): Heat capacity of plutonium nitride at low temperatures. *J. Chem. Thermodyn.* 10 (1978) 935
- HANTSCHMANN, A., SALVETTER, J., HENNIG, H., MOHAI, B. (Karl Marx Univ., Chem. Sect., DDR-701 Leipzig, GDR): The thermal behaviour of diphenyliodonium cyanometallates. *Thermochim. Acta* 25 (1978) 341
- HASAN, I., FOWLER, F. W. (c/o F. W. Fowler, Suny Stony Brook, Dept. Chem., Stony Brook, N. Y., 11794 USA): Thermal rearrangements of 1,2-dihydropyridines. *J. Amer. Chem. Soc.* 100 (1978) 6696
- HASSELMANN, D., LOSEN, K. (Ruhr Univ. Bochum, Chem. Abt., D-4630 Bochum, GFR): Non-equilibrating diradicals. 3,5-Methylene-bicyclo[2.2.0]hex-2-ene, a bicyclic isomer of toluene: Synthesis and thermal behavior. *Ang. Chem. Int. Ed.* 17 (1978) 606
- HATTA, I., MATSUDA, T., DOI, H., NAGASAWA, H., ISHIGURO, T., KAGOSHIMA, S. (Nagoya Univ., Dept. Appl. Phys., Chikusa-ku, Nagoya, Aichi, 464 Japan): Specific heat of $K_2Pt(CN)_4Br_{0.8} \cdot 3H_2O$. *Solid State Commun.* 27 (1978) 479
- HAY, J. N. (Univ. Birmingham, Ctr. Mat. Sci., Birmingham B15 2TT, W. Midlands, England): Determination of specific heat of polystyrene by DSC. 2. *Polymer* 19 (1978) 1224
- HEBRAL, B., FROSSATI, G., GODFRIN, H., SCHUMACHER, G., THOULOUZE, D. (CNRS, Ctr. Rech. Très Basses Temp., Bp 166X, F-38042 Grenoble, France): Apparatus for heat capacity and heat transfer measurements down to the mK. *Rev. Phys. Appl.* 13 (1978) 533 (In French)
- HEICKLEN, J. (Penn. State Univ., Dept. Chem., University Pk., Pa., 16802 USA): Computation of the standard free energies for the reactions $A^+(H_2O)_n + H_2O \rightleftharpoons A^+(H_2O)_{n+1}$. *J. Phys. Chem.* 82 (1978) 2136
- HERLEY, P. J., IRWIN, R. H. (Suny Stony Brook, Dept. Mat. Sci., Stony Brook, N. Y., 11794 USA): A preliminary study of the thermal and photolytic decomposi-

- tion of aluminium hydride powder. *J. Phys. Chem. Solids* 39 (1978) 1013.
- ETHERINGTON, J. H. (Michigan State Univ., Dept. Phys., E. Lansing, Mich., 48824 USA): Vacancy bandwidth in BCC ^3He as determined by specific heat. *J. Low Temp. Phys.* 32 (1978) 173.
- HEYMER, G. (Hoechst A. G., Werk Knapsack, D-5033 Köln, GFR): Phosphorus-based flame retardants. *First Int. Congr. Phosph. Comp. Proc. Phosph. Comp. Their Non-Fertilizer Appl. Int. between Pure and Appl. Chem., Rabat, Morocco, Oct. 17–21 (1977)* 221.
- HIBBERT, F., AWWAL, A. (Univ. London, Birkbeck Coll., Dept. Chem., London, WC1E 7HX, England): Temperature-jump study of the mechanism of base catalysed removal of the intramolecularly hydrogen-bonded proton from a substituted salicylate ion in aqueous solution. *J. Chem. Soc. Perkin Trans. II* (1978) 939.
- HIBST, H., GRUEHN, R. (Univ. Giessen, Inst. Anorg. und Analyt. Chem., D-6300 Giessen, GFR): Tribiochemische und thermische Bildung einer Rutilmischphase im System $\text{TiO}_2-\text{Nb}_2\text{O}_5$. *Z. Anorg. Allg. Chem.* 443 (1978) 135.
- HJERTBERG, T., SÖRVIK, E. M. (Chalmers Univ. Technol., Dept. Organ. Chem., Polymer Grp., S-40220 Gothenburg, 5 Sweden): On the influence of HCl on the thermal degradation of poly(vinyl chloride). *J. Appl. Polym. Sci.* 22 (1978) 2415.
- HO, C. Y., ACKERMAN, M. W., WU, K. Y., OH, S. G., HAVILL, T. N. (Purdue Univ., Ctr. Informat. and Numer. Data Anal. and Synthesis, W. Lafayette, Ind., 47906 USA): Thermal conductivity of ten selected binary alloy systems. *J. Phys. Chem. Ref. Data* 7 (1978) 959.
- HOLCIK, J., KOSIK, M., BENBOW, A. W., CULLIS, C. F. (City Univ. London, Dept. Chem., London, EC1V 4PB England): The oxidative thermal degradation of polypropylene and the influence of transition metal chelates. *Eur. Polym. J.* 14 (1978) 769.
- HOLMSTRÖM, A., SÖRVIK, E. M. (Statens Provningsanstalt, Polymer Mat. Lab., POB 857, S-50115 Borås, Sweden): Thermo-oxidative degradation of polyethylene. I and II. Structural changes occurring in low-density polyethylene, high-density polyethylene, and tetra-tetracontane heated in air. *J. Polym. Sci. Polym. Chem. Ed.* 16 (1978) 2555.
- HOWARD, J. A., TAIT, J. C. (Natl. Res. Council Canada, Div. Chem., Ottawa, K1A OR9 Ontario, Canada): 2,2,6,6-tetramethyl-4-oxo-1-(1,1-diphenylethoxy)piperidine: synthesis and thermal stability. *J. Org. Chem.* 43 (1978) 4279.
- HUMPHRIS, S. E., MORRISON, M. A., THOMPSON, R. N. (Univ. London, Imperial Coll. Sci. and Technol., Dept. Geol., London, SW7 2BP England): Influence of rock crystallisation history upon subsequent lanthanide mobility during hydrothermal alteration of basalts. *Chem. Geol.* 23 (1978) 125.
- IHARA, Y., UEHARA, A., TSUCHIYA, R., KYUNO, E. (c/o R. Tsuchiya, Kanazawa Univ., Fac. Sci., Dept. Chem., Kanazawa, Ishikawa, 920 Japan): Derivatographic studies on transition metal complexes. XX. Thermal electron transfer reactions of cobalt(III) complexes containing phenylbiguanide in the solid phase. *Bull. Chem. Soc. Jap.* 51 (1978) 2578.
- IKEDA, M., TERAMOTO, Y., YASUTAKE, M. (Fuji Photo Film Co. Ltd., Tokyo Res. Labs., Asaka, Saitama, 351 Japan): Kinetic analysis of photopolymerisation reaction of lauryl acrylate with a photo-induced chemical reaction calorimeter. *J. Polym. Sci. Polym. Chem. Ed.* 16 (1978) 1175.
- IRING, M., LÁSZLÓ-HEDVIG, Zs., BARABÁS, K., KELEN, T., TÜDŐS, F. (Hung. Acad. Sci., Ctr. Res. Inst. Chem., P.B. 17, H-1525, Budapest, Hungary): Investigation of the thermo-oxidative degradation of polyolefins. IX. *Magy. Kém. Foly.* 84 (1978) 347 (In Hungarian).
- ISHIKI, M., IGAKI, K. (Tohoku Univ., Fac. Engn., Dept. Mat. Sci., Sendai, Miyagi, 980 Japan): Temperature dependence of the electrical resistivity of pure iron at low temperatures. *Trans. Jap. Inst. Metals* 19 (1978) 431.
- IVÁN, B., TURCSÁNYI, B., NAGY, T. T., KELEN, T., TÜDŐS, F. (Hung. Acad. Sci., Centr. Res. Inst. Chem., P. B. 17, H-1525, Budapest, Hungary): Photometric determination of the gel point in the thermal

- degradation of PVC. *Magy. Kém. Foly.* 84 (1978) 306 (In Hungarian)
- IVANILOVA, O. T., TCHUTCHIN, A. E. (All Union Elect. Insulating Mat. Res. and Technol. Inst., Moscow, USSR): Influence of thermal treatment upon reactivity of polyarylen alkynes. *Vysokomol. Soedin. A* 20 (1978) 1660 (In Russian)
- IVANOVEMIN, B. N., FILATENKO, L. A., OLGINKINONES, S., KAZIEV, G. Z. (V. I. Lenin State Teachers Inst., Moscow, USSR): Thermal decomposition of $M_3[AlMo_6O_{18}(OH)_6] \cdot 7H_2O$ and $M_3[GaMo_6O_{15}(OH)_6] \cdot 7H_2O$ ($M = K, Rb, Cs, NH_4$). *Zh. Neorg. Khim.* 23 (1978) (In Russian)
- Ivičić, N., SIMEON, VL. (Inst. Med. Res. and Occupat. Hlth., Zagreb, Yugoslavia): Enthalpies of ligation of Co^{2+} and Cu^{2+} to epimeric threonines and isoleucines. *Thermochim. Acta* 25 (1978) 299
- IZATT, R. M., TERRY, R. E., HANSEN, L. D., AVONDET, A. G., BRADSHAW, J. S., DALLEY, N. K., JENSEN, T. E., CHRISTENSEN, J. J. (Brigham Young Univ., Inst. Thermochem., Dept. Chem., Provo, Utah, 84602 USA): A calorimetric titration study of uni- and bivalent metal ion interaction with several thia derivatives of 9-crown-3, 12-crown-4, 15-crown-5, 18-crown-6, 24-crown-8, and with several oxathiapentadecanes in water or water-methanol solvent at 25°C. *Inorg. Chim. Acta* 30 (1978) 1
- JACHOWICZ, J., KRYSZEWSKI, M., KOWALSKI, P. (Tech. Univ. Łódź, Inst. Polymer, PL-90542 Łódź, Poland): Thermal degradation of poly(2,6-dimethyl-1,4-phenylene oxide). I. The mechanism of degradation. *J. Appl. Sci.* 22 (1978) 2891
- JAMESON, C. J., JAMESON, A. K., PARKER, H. (Univ. Illinois, Dept. Chem., Chicago, Ill., 60680 USA): Temperature dependence of the chemical shielding of ^{19}F nuclei in isolated CF_3H , CF_3Cl , Br and CF_3CF_3 molecules. *J. Chem.* 69 (1978) 1318
- JAMESON, A., MCNEILL, I. C. (Univ. Glasgow, Dept., Chem., Glasgow, G12 8QQ Scotland): Thermal degradation of mixtures of poly(methyl methacrylate) and silver acetate. *J. Polym. Sci. Polym. Chem. Ed.* 16 (1978) 2225
- JELLINEK, H. H. G., DAS, A. (Clarkson Coll. Technol., Dept. Chem., Potsdam, N. Y., 13676 USA): HCN evolution during thermal-oxidative degradation of nylon 66 and polyacrylonitrile. *J. Polym. Sci. Polym. Chem. Ed.* 16 (1978) 2715
- JERE, G. V., GUPTA, G. D., RAMAN, V., SANTHAMMA, M. T. (Indian Inst. Technol., Dept., Chem., New Delhi, 110029 India): IR and thermal data of peroxy compounds of group IVA elements. *Indian J. Chem.* 16 (1978) 435
- JEZEQUEL, J. Y., BARONNET, F., NICLAUSE, M. (CNRS, Chim. Gen. Lab., Equipe Rech. 136, 1 Rue Grandville, F-54042 Nancy, France): La pyrolyse du propane à faible avancement. *J. Chim. Phys.* 75 (1978) 773
- JONAS, R., HEYDTMANN, H. (Perennatorwerk Alfred Hagen GmbH, Rheingaustr. 38A, D-Wiesbaden, GFR): The thermal unimolecular decompositions of CH_3CD_2Cl , CD_3CD_2Cl , CH_3CHCl_2 . *Ber. Bunsen Ges. Phys. Chem.* 82 (1978) 823
- JORGE, R. A., AIROLDI, C., CHAGAS, A. P. (c/o A. P. Chagas, Univ. Estadual Campinas, Inst. Quim., 13100 Campinas, S. P. Brazil): Thermochemistry of dichlorobis-(triphenylphosphine oxide)-zinc(II), -cadmium(II) and -mercury(II). *J. Chem. Soc. Dalton Trans.* (1978) 1102
- KANAJI, Y., ISAGAWA, M., KITAJIMA, S., DEKI, S. (Kobe Univ., Fac. Ingn., Nada-ku, Kobe, Japan): Formation of radicals by the reaction of $Ti^{3+} - H_2O_2$ systems on the surface of Cr_2O_3 and their thermal stability. *J. Electrochem. Soc. Jap.* 46 (1978) 504 (In Japanese)
- KANAZAWA, T., UMEGAKI, T., KAWAZOE, H. (Tokyo Metropolitan Univ., Fac. Technol., Dept. Ind. Chem., Tokyo, 158 Japan): Magnesium phosphates. Some aspects of preparation, composition and thermal changes. *First Int. Congr. Phosph. Comp. Proc. Phosph. Comp. and their Non-Fertilizer Appl. Interact. between Pure and Appl. Chem., 1st Int. Congr. Phosph. Comp., Rabat, Morocco, Edit.* (1978) 107
- KARABASOV, Y. S., CHIZHIKOVA, V. M., VOROPAYEV, E. M., SHKURKO, E. F.: Combustion relationships of solid fuel in a sinter bed. *Russ. Metal. transl. Izv. Akad. Nauk SSSR Metal.* (1977) 4

- KARPINSKII, D. N., VLADIMIROV, V. I., ORLOV, A. N. (A. F. Ioffe Engn. Phys. Inst., Leningrad, USSR): Effect of heat instabilities on crack growth in plastic material. *Fiz. Tverd. Tela* 20 (1978) 2979 (In Russian)
- KATZ, M. G., RAJBENBACH, L. A. (Soreq Nucl. Res. Ctr., Yavne, Israel): Correlation of activation energies of radical-molecule metathesis reactions with enthalpic, polar, and steric parameters. *Int. J. Chem. Kinet.* 10 (1978) 955
- KAWAZOE, H., AMETANI, K., IMAI, M., KANAZAWA, T. (Tokyo Metropolitan Univ., Fac. Technol., Dept. Ind. Chem., Setagaya-ku, Tokyo, 158 Japan): The "overcondensation" of phosphate ions and the formation of conjugate metal oxide upon the thermal dehydration-condensation of hydrogenorthophosphates. *Bull. Chem. Soc. Jap.* 51 (1978) 2886
- KAWAZOE, H., NISHINO, M., HOSONO, H., ISOZAKI, K., AMETANI, K., IMAI, M., KANAZAWA, T. (Tokyo Metropolitan Univ., Fac. Technol., Dept. Ind. Chem., Setagaya-ku, Tokyo, 158 Japan): The formation of trapped electrons upon the thermal dehydration-condensation of hydrated hydrogenorthophosphates. *Bull. Chem. Soc. Jap.* 51 (1978) 2882
- KENNEDY, M. V., HOLLOWAY, M. E., HUTTO, F. Y. (Mississippi State Univ., Dept. Biochem. State Coll., Miss., 39762 USA): Thermal degradation of selected fungicides and insecticides. *Symp. Disposal Decontamination Pesticides, Chicago, Ill., Aug. 29-Sept. 2, 1977, Edit. M. Kennedy, Amer. Chem. Soc. Wash.* (1978) 81
- KERTES, A. S., GRAUER, F. (Hebrew Univ. Jerusalem, Inst. Chem., Jerusalem, 91000 Israel): Thermodynamics of solvent extraction processes. Effect of diluent on the enthalpy of formation of tri-n-octylammonium chloride. *J. Inorg. Nucl. Chem.* 40 (1978) 1781
- KIM, Y. C., OISHI, J., KANG, S. H. (Kyoto Univ., Dept. Nucl. Engn., Kyoto, 606 Japan): The enthalpies of formation of gadolinium and ytterbium trifluorides. *J. Chem. Thermodyn.* 10 (1978) 975
- KINNUNEN, J., MERIKANTO, B., WENNERSTRAND, B. (Outokumpu Oy, Centr. Lab., Pori, Finland): Determination of sulphur in pyrite by combustion. *Freseinius Z. Anal. Chem.* 292 (1978) 300
- KIROV, N., CAVATORTA, F. (Inst. Solid State Phys., 72 Boul. Lenin, BU-1113 Sofia, Bulgaria): Raman, infrared and calorimetric investigations of solid phases formed by 4-nitrophenyl 4-n-octyloxybenzoate. *Spectrosc. Lett.* 11 (1978) 589
- KISHORE, K. (Indian Inst. Sci., Dept. Inorg. and Phys. Chem., High Energy Solids Lab., Bangalore, 560012 India): Significance of reduced-time plots thermal analysis. *Indian J. Chem. A* 16 (1978) 553
- KISS, B. A., NÉMETH, T., SZALÁNCZY, É., BARTHA, L. (Egyesült Izzólámpa és Villamossági R. T., Kutató Int., H-1340 Budapest, Hungary): Supplementary date to the thermal polycondensation of ammonium paratungstate. 4-hydrate $(\text{NH}_4)_{10}[\text{W}_{12}\text{O}_{40}(\text{OH})_2] \cdot 4\text{H}_2\text{O}$. *Magy. Kém. Foly.* 84 (1978) 326 (In Hungarian)
- KIYOHARA, O., D'ARCY, P. J., BENSON, G. C. (Nat'l. Res. Council Canada, Div. Chem., Ottawa, K1A OR6 Ontario, Canada): Heat capacities and compressibilities of deuterium oxide - water mixtures at 298.15K. *Thermochim. Acta* 25 (1978) 379
- KLYACHKO, A. L., BRUEVA, T. R., MISHIN, I. V., KAPUSTIN, G. I., RUBINSTEIN, A. M. (N. D. Zelinskii Organ. Chem. Inst., Moscow, USSR): Calorimetric study of zeolite acidity. *Acta Phys. Chem.* 24 (1978) 183
- KLYUCHINSKII, S. A., ZAVGORODNI, V. S., ZUBOVA, T. P., PETROV, A. A. (Lensovet Technol. Inst., Leningrad, USSR): Thermal isomerization of beta-triethylstannyl styrenes. *Zh. Obshch. Khim.* 48 (1978) 2135 (In Russian)
- KOBETS, L. V., KLAVSUT, G. N., UMREIKO, D. S.: Spectral-thermal study of uranyl tripolyphosphates. *Zh. Neorg. Khim.* 23 (1978) 2467 (In Russian)
- KÖTHER, W., MÜLLER, F. (Rhein. Westfal. T. H. Aachen, Inst. Gesteinhüttenkunde, D-5100 Aachen, GFR): Thermochemische Untersuchung zur Stabilität von Orthosilicaten und -germanaten. *Z. Anorg. Allg. Chem.* 444 (1978) 77
- KOVALENKO, V. Y., PUSTYLNÍK, M. L., BEBTCHUK, T. S., MUZAFAROVA, M. N., ZHERDEV, Y. V., NEDOROSOL, V. D., ANDRIANOV, K. A. (All Union Elect. Insulating Mat. Res. and Technol. Inst.,

- Moscow, USSR): Structure of monomeric unit of cross-linked polymer and its relation with thermal stability of polymethylsiloxanes. *Vysokomol. Soedin. A* 20 (1978) 1616 (In Russian)
- KUCHERENKO, E. S.: Melting kinetics of solid solutions at high heating rates. *Russ. Metal. transl. Izv. Akad. Nauk SSSR Metal.* (1977) 76
- KUHNE, H. (Akad. Wissenschaft. DDR, Werkstoffbearbeitung Inst. Phys., Seestr. 82, DDR-1166 Berlin, GDR): Temperature dependence of degree of doping in growth of silicon epitaxial layers from gas phase. 2. Phosphorus content and values of differential molar solution enthalpies. *Kristall, Technik* 13 (1978) 1059
- KUKUSHKIN, Y. N., SEDOVA, G. N., BELYAEV, A. N. (Lensovet Technol. Inst., Leningrad, USSR): Thermal migration of amines in platinum(II) complexes. *Zh. Neorg. Khim.* 23 (1978) 2121 (In Russian)
- KUMAKURA, M., ARAKAWA, K., SUGIURA, T. (Japan Atom Energy Res. Inst., Takasaki Radiat. Chem. Res. Establ., Takasaki, Gunma, Japan): Thermal ion - molecule reactions in oxygen-containing molecules. Condensation-elimination reactions in n-propyl formate. *Int. J. Mass Spectrom. Ion Phys.* 28 (1978) 193
- KUNDU, P. C., ROY, P. S. (Univ. Coll. Sci. Calcutta, Dept. Pure Chem., Calcutta, 700009 India): Studies on the reaction of salicylimine with dioxouranium (UO_2^{2+}) and correlation of IR and TGA data with the U-O bond length. *J. Indian Chem. Soc.* 55 (1978) 637
- KUPIRIYANOV, V. F., TSVETKOV, V. G. (N. I. Lobachevskii State Univ., Chem. Res. Inst., Gorki, USSR): Enthalpy of mixing of tributyl phosphate with chlorides and oxychlorides of some elements. *Zh. Neorg. Khim.* 23 (1978) 2547 (In Russian)
- LABOWSKY, M., ROSNER, D. E. (Yale Univ., Dept. Engn. and Appl. Sci., Chem. Engr. Sect., New Haven, Conn., 06520 USA): "Group" combustion of droplets in fuel clouds. 1. Quasi-steady predictions. *Evaporation - Combust. Fuels* 172nd Meeting Amer. Chem. Soc., San Francisco, Calif., Aug. 31, Sept. 1, 1976, Edit. J. T. Zung, Amer. Chem. Soc., Wash. (1978) 63
- LAHIRI, S., DABRAL, V., GEORGE, M. V. (c/o M. V. George, Indian Inst. Technol., Dept. Chem., Kanpur, 208016 Uttar Pradesh, India): Thermal addition of dibenzoylacetylene to cycloheptatriene and the photo-rearrangement of the thermal adduct [acetylene-dimers : cis-1,2-dibenzoylalkene]. *Tetrahedron* 34 (1978) 2305
- LANDGREN, M., MCEACHERN, D., OLOFSSON, G., RANDZIO, S., SUNNER, S. (c/o G. Olofsson, Univ. Lund, Ctr. Chem., Thermo-chem. Lab., S-22007 Lund, 7 Sweden): Evaluation of excess enthalpies from flow-calorimetric measurements of enthalpies of dilution using local approximation by polynomials. *J. Chem. Thermodyn.* 10 (1978) 847
- LARCHE, F. C., CAHN, J. W. (Univ. Montpellier 2, F-34060 Montpellier, France): Thermochemical equilibrium of multiphase solids under stress. *Acta Met.* 26 (1978) 1579
- LAWANGER, R. D. (Shivaji Univ., Dept. Phys., Kolhapur 416004 Maharashtra, India): Thermally stimulated conductivity in CaS: Pd phosphors. *Indian J. Phys. A* 52 (1978) 223
- LAYTON, B. R., ALLEY, E. G. (Mississippi State Chem. Lab., Box Cr., Mississippi State, Miss., 39762 USA): Pyrolysis and disposal of mirex residues. *Symp. Disposal Decontamination Pesticides, Chicago, Ill., August 29-Sept. 2, 1977, Edit. M. Kennedy Amer. Chem. Soc., Washington* (1978) 112
- LAZAREV, V. B., SHAPLYGIN, I. S. (N. S. Kurnakov Gen. and Inorgan. Chem. Inst., Moscow, USSR): Preparation, thermal stability and properties of new double oxides of CeRhO_3 and YRhO_3 . *Zh. Neorg. Khim.* 23 (1978) 2614 (In Russian)
- LEDNEVA, O. A., MIKHIEV, Y. A., TOPTYGIN, D. Y., KARASEV, V. M., GAVRILOV, L. B., SHATALOVA, O. V., RAZUMOVA, L. L., AKUTIN, M. S. (Acad. Sci. USSR, Inst. Chem. Phys., Moscow V-71 USSR): Influence of stress on polycarbonate destruction under the conditions of thermal degradation of benzoyl peroxide. *Vysokomol. Soedin. A* 20 (1978) 1989 (In Russian)
- LEGROS, R., BONEL, G., BALMAIN, N., JUSTER, M. (Univ. Toulouse, 3 CNRS Chim. Solides et Haut Press., Equipe Rech. 263, F-31400 Toulouse, France): Identification précise du constituant minéral des os par

- étude de son comportement thermique. *J. Chim. Phys.* 75 (1978) 761
- LEMESHEVA, D. G., ROSOLOVSKII, V. A. (N. S. Kurnakov Gen. and Inorgan. Chem. Inst., Moscow, USSR): Effect of some admixtures on thermal decomposition of lithium perchlorate. *Zh. Neorg. Khim.* 23 (1978) 2055 (In Russian)
- LEPLYANIN, G. V., RAFIKOV, S. R., KORCHEV, O. L., GALIN, F. Z., VARISOVA, E. G., MALYARCHUK, E. S. (Acad. Sci. USSR, Inst. Chem., Ufa, USSR): Influence of stabilizer distribution on thermal stability of poly-(methylmethacrylate). *Vysokomol. Soedin. A* 20 (1978) 1575 (In Russian)
- LERNER, A. M., FRIDMAN, V. E. (Gorki Radiophys. Res. Inst., Gorki, USSR): Model equations for the nonlinear acoustics of media with a high thermal conductivity. *Sov. Phys. Acoust. transl. Akust. Zh.* 24 (1978) 128
- LEVESQUE, M., DINEL, H. (Agr. Canada, Inst. Soil Res., Ottawa, Ontario, Canada): Applicability of thermal methods for characterization of peats and plants. *Geoderma* 20 (1978) 201
- LICHANOT, A., GRENIER-LOUSTALOT, M. F., IRATÇABAL, P., LOUDET, M., METRAS, F. (Univ. Pau, Inst. Rech. Sci., Chim. Organ. Phys. Lab., F-64000 Pau, France): Calcul de l'équilibre conformationnel de la fluoro-4 cyclohexanone. *Thermochim. Acta* 25 (1978) 307
- LIEPINS, R., SURLES, J. R., MOROSOFF, N., STANNETT, V., DUFFY, J. J., DAY, F. H. (Univ. Calif., Los Alamos Sci. Lab., Los Alamos, N. M., 87545 USA): Localized radiation grafting of flame retardants to polyethylene terephthalate. II. Vinyl phosphonates. *J. Appl. Polym. Sci.* 22 (1978) 2403
- LIN, J. W., WEN, W. Y. (Honeywell Inc., Ctr. Corp. Mat. Sci., Bloomington, Minn., 55420 USA): Thermal analysis of styrene-alkyl methacrylate polymers. I. Glass transition temperatures. *J. Appl. Polym. Sci.* 22 (1978) 2275
- LOYZANCE, P. L., REY-LAFON, M., BONJOUR, E. (Lab. Spectroscopie Infrarouge, CNRS 351, Cours Liberat., F-33405, Talence, France): Vibrational and calorimetric study of polymorphism in 2-fluoro and 2-chloronaphthalene. Nature of disorder. *J. Phys. Chem. Solids* 39 (1978) 967
- MACKENZIE, K. J. D. (Dsir, Dept. Chem., Petone, New Zealand): An in situ infrared study of magnesium oxide dehydroxylation under electric fields. *Thermochim. Acta* 25 (1978) 277
- MANOHARAMURTHY, N., SUBRAHMANYAM, S. V. (Postgrad. Ctr., Dept. Phys., Anantapur, 515003 India): Heat capacities of dilute aqueous-solutions of tert-butanol, normal-propanol, ethylene glycol and glycerol. Evaluation of partial molal heat capacity at infinite dilution. *Indian J. Chem. A* 16 (1978) 558
- MARGAS, E., ZIELENKIEWICZ, W. (Polish Acad. Sci., Inst. Phys. Chem., PL-01224 Warsaw, Poland): A dynamic model of a calorimetric system as a multi body system. *Bull. Acad. Pol. Sci.* 26 (1978) 503
- MARSHALL, R. M., PAGE, N. D. (Univ. Wales, Univ. Coll. Swansea, Dept. Chem., Swansea SA2 8PP, W. Glamorgan, Wales): Evidence for a molecular component in the thermal decomposition of azomethane. *J. Chem. Soc. Faraday Trans. I*, 74 (1978) 2121
- MASZKIEWICZ, M. (Polish Acad. Sci., Inst. Phys., Lotników 3246, PL-02668 Warsaw, Poland): Fluctuations of magnetic moment and the specific heat of an antiferromagnet near the critical temperature. *Acta Phys. Pol.* 54 (1978) 337
- MCNEILL, I. C., ZULFIQUAR, M. (Univ. Glasgow, Dept. Chem., Glasgow G12 8QQ Scotland): Thermal decomposition of ammonium polymethacrylate and polymethacrylamide. *J. Polym. Sci. Polym. Chem. Ed.* 16 (1978) 2465
- MERZHANOV, A. G., RUMANOV, E. N.: Formation of solid solutions under combustion conditions. *Russ. Metal. transl. Izv. Akad. Nauk SSSR Metal.* (1977) 161
- MEYER, E. F., BAIOCCHI, F. A. (Depaul Univ., Dept. Chem., Chicago, Ill., 60614 USA): A comparison of gas-liquid chromatographic enthalpies of solution with calorimetric values for four alkane systems. *J. Chem. Thermodyn.* 10 (1978) 823
- MICHELONI, M., PAOLETTI, P., VACCA, A. (c/o M. Paoletti, Univ. Florence, Ist. Chim. Gen. ed Inorgan., I-50132 Florence, Italy): Solution chemistry of macrocycles, 2. Enthalpic and entropic contributions to the proton basicity of cyclic tetra-amino ligands: 1,4,8,11-tetra-azacyclo-

- tetradecane, 1,4,8,12-tetraazacyclopentadecane, and 1,4,8,11-tetramethyl-1,4,8,11-tetracyclotetradecane. *J. Chem. Soc. Perkin Trans. II* (1978) 945
- MINSKER, K. S., ABDULLIN, M. I., MANUSHIN, V. I., MALYSHEV, L. N., ARZHAKOV: S. A. (Bashkir State Univ., Ufa, USSR). Thermal dehydrochlorination of polyvinyl-chloride in solution. *Dokl. Akad. Nauk SSSR* 242 (1978) 366
- MIRONOV, V. F., KOZYUKOV, V. P., SHELUDYAKOVA, S. V., KOZYUKOV, V. P.: Synthesis of silylcarbodiimides by thermal decarboxylation of isocyanatosilanes. *Zh. Obshch. Khim.* 48 (1978) 2136 (In Russian)
- MIZUTANI, U., HARTWIG, K. T., MASSALSKI, T. B., HOPPER, R. W.: Low-temperature specific heats of glassy $Pd_{1-x-y}Cu_y$ alloys. *Phys. Rev. Lett.* 41 (1978) 914
- MOPSIK, F. I., GUTTMAN, C. M. (NBS, Inst. Mat Res., Washington, D. C., 20234 USA): The thermodynamics of the glassy state. I. The heat capacity of one-dimensional disordered harmonic systems from moments. *J. Res. Nat. Bur. Stand.* 83 (1978) 283
- MORGAN, P. J., SMITH, K. (Univ. Wales, Univ. Coll. Swansea, Dept. Chem., Swansea SA2 8PP, W. Glamorgan, Wales): Potentiality of seaweed as a resource analysis of the pyrolysis products of *fucus serratus*. *Analyst* 103 (1977) 1053
- MORRIS, J. W., BREWER, L., COST, J. R., SHEWMON, P. (Univ. Calif. Berkeley, Lawrence Berkeley Lab., Berkeley, Calif., 94720 USA): Phase transformations, stability and materials interactions. *Mater. Sci. Engr. Direct. Energy — Related Basic Mater. Res.* 35 (1978) 75
- MÜLLER, R., WÖHRLE, D. (c/o D. Wöhrle, Univ. Bremen, Studienbereich 3, D-2800 Bremen, GFR): Tetraaza[14]annulen-Derivate und ihre Vorstufen. 3. Katalyse, Halbleitereigenschaften und Thermostabilität der Metallkomplexe. *Makromol. Chem.* 179 (1978) 2161
- MULOKOZI, A. M. (Univ. Dar es Salaam, Tanzania): Electron transfer and bonding in the intermetallic compounds of rare earths with the AlB_2 type or a closely structure. II. A theoretical treatment of the heats of formation of RGa_2 compounds. *J. Less-Common Metals* 60 (1978) 231
- MUŠKATIROVIĆ, M. D., JOVANOVIĆ, B. Ž., BONČIĆ-CARIĆIĆ, A., TADIĆ, Z. D. (Univ Beograd, Fac. Technol. and Met., Dept. Organ. Chem., Carnegieva 4, YU-11001 Beograd, Yugoslavia): Thermal dealkylation of 2,4-bis(alkylamino)-6-chloro-s-triazines. Effect of ring size on formation of alicyclic olefines. 3. *J. Chem. Soc. Perkin Trans. II* (1978) 948
- NAKAMURA, Y. (Iwate Univ., Fac. Engn., Dept. Appl. Chem., Morioka, 020 Japan): Thiol-s-triazine as a stabilizer for thermal discoloration. *J. Macromol. Sci.* 12 A (1978) 323
- NASSER, M. S. (Univ. Calif., Dept. Phys., Los Angeles, Calif., 90024 USA): Hyperfine contribution to the specific heat of the one-dimensional XY model. *Phys. Rev. B* 18 (1978) 1371
- NEOGY, D., CHATTERJI, A., NEOGY, A. (Univ. Burdwan, Dept. Phys., Burdwan, 713101 W. Bengal, India): Magnetic and thermal properties of terbium ethylsulfate. *J. Chem. Phys.* 69 (1978) 2703
- NEWMAN, R. N., PAGE, F. M., WOOLLEY, D. E. (Univ. Aston, Birmingham, B4 7ET, W. Midlands, England): Ionization associated with solid particles in flames. *Evaporation-Combust. Fuels 172nd Meeting Amer. Chem. Soc., San Francisco, Calif., Aug. 31—Sept. 1, 1976, Edit. J. T. Zung, Amer. Chem. Soc., Wash.* (1978) 141
- NISHINO, K., NAKASUJI, K., MURATA, I. (c/o I. Murata, Osaka Univ., Fac. Sci., Dept. Chem., Toyonaka, Osaka, 560 Japan): Thiepin. X. Syntheses and thermal stability of ethoxycarbonylbenzo[b]thiepins. *Tetrahedron Lett.* (1978) 3567
- NIZHESKIY, R. E., SHVETSOV, V. I., KOZYAVKIN, A. A.: High-temperature oxidation of Fe—Cr—Mn—C (19 per cent Cr, 14 per cent Mn) alloys. *Russ. Metal. transl. Izv. Akad. Nauk SSSR Metal.* (1977) 60
- NORDE, W., LYKLEMA, J. (State Agr. Univ., Phys. and Colloid Chem. Lab., Wageningen, Netherlands): The adsorption of human plasma albumin and bovine pancreas ribonuclease at negatively charged polystyrene surfaces. V. Microcalorimetry. *J. Colloid Interface Sci.* 66 (1978) 295
- ODABASHYAN, G. V., ROZHKOV, V. I., LEBEDEV, V. V., LEBEDEV, N. N. (D. I. Men-

- deleev Chem. Technol., Moscow, USSR): Thermal decomposition of para-diethyl-benzene. *Zh. Vses. Khim. Obshch. Mendeleva* 23 (1978) 478
- OKAJI, M., WATANABE, T. (Natl. Res. Lab. Metrol., Tokyo, Japan): Heat capacity near lambda-point in He-4 under pressure. Experimental test of scaling laws and universality. *J. Low Temp. Phys.* 32 (1978) 555
- OLESHCHUK, V. I., RUDAYA, N. V., ANISIMOV, Y. N. (I. I. Mechnikov State Univ., Odessa, UkrSSR): Thermal stability and initiating activity of organomagnesium peroxide-tert-butylperoxymagnesium chloride. *Zh. Obshch. Khim.* 48 (1978) 2092 (In Russian)
- OREKHOV, N. G., RAZUMOVSKIY, I. M.: Influence of phase transformations in cobalt alloys on diffusion and mechanical properties. *Fiz. Metal. Metalloved.* 46 (1978) 390 (In Russian)
- OSAKA, T. (Sci. Univ. Tokyo, Fac. Sci., Dept. Appl. Phys., Shinjuku-ku, Tokyo, 162 Japan): Thermal properties of ferroelectric $\text{NaN}_4\text{SO}_4 \cdot 2\text{H}_2\text{O}$. *J. Phys. Soc. Jap.* 45 (1978) 571
- PAGE, F. M., ATES, F. (Univ. Aston, Birmingham, B4 7ET, W. Midlands, England): Oxidation of soot in fuel-rich flames. *Evaporation-Combust. Fuels 172nd Meeting Amer. Chem. Soc., San Francisco, Calif., Aug. 31-Sept. 1, 1976, Edit. J. T. Zung, Amer. Chem. Soc., Wash.* (1978) 190
- PATNAIK, S. K. (Stewart Sci. Coll., Dept. Chem., Cuttack, 1 India): Further observation on radiation induced thermal decomposition of potassium bromate. *Radiochem. Radioanal. Lett.* 35 (1978) 181
- PENADÉS, S., SCHÄFER, G. (Hannover Univ. Med., Inst. Klin. Biochem. und Physiol. Chem., Postfach 610180, D-3000 Hannover, GFR): Thermischer Zerfall von 8-Azidoadeninucleotiden. *Justus Liebigs Ann. Chem.* (1978) 1365
- PÉRAUDEAU, G., RAVEZ, J., AREND, H. (Univ. Bordeaux 1 CNRS, Chim. Solide Lab., F-33405 Talence, France): Etude des transitions de phases des composés $\text{Rb}_2\text{KMO}_3\text{F}_3$, $\text{Cs}_2\text{KMO}_3\text{F}_3$ et $\text{Cs}_2\text{RbMO}_3\text{F}_3$ ($M = \text{Mo, W}$). *Solid State Commun.* 27 (1978) 515
- PERDUE, E. M. (Portland State Univ., Dept Chem., Portland, Oreg., 97207 USA): Solution thermochemistry of humic substances. 1. Acid-base equilibria of humic acid. *Geochim. Cosmochim. Acta* 42 (1978) 1351
- PETROULEAS, V., LEMMON, R. M. (Univ. Calif. Berkeley, Lawrence Berkeley Lab., Berkeley, Calif., 94720 USA): Calorimetric studies of choline chloride, bromide, and iodide. *J. Chem. Phys.* 69 (1978) 1315
- PICKENHAGEN, W., OHLOFF, G., RUSSEL, R. K., ROTH, W. D. (Firmenich Sa., Res, Labs., CH-1211 Geneva, 8 Switzerland): Intramolecular ene reaction. Thermal rearrangement of linalool and 1,2-dehydro-linalool. *Helv. Chim. Acta* 61 (1978) 2249
- PILCHER, G., CAVELL, K. J., GARNER, C. D., PARKES, S. (Univ. Manchester, Dept. Chem., Manchester M13 9PL Lancashire, England): The standard enthalpies of formation of tris(pentane-2,4-dionato)-molybdenum(III) and dioxobis(pentane-2,4-dionato)molybdenum(VI), and the molybdenum-pentane-2,4-dionate bond-enthalpy contributions. *J. Chem. Soc. Dalton Trans.* (1978) 1311
- PILOIAN, G. O., KOTLOVA, A. G. (Acad. Sci. USSR, Inst. Geol. Ore Deposits Petrog. Mineral and Geochem., Moscow, V-71 USSR): Modified differential thermogravimetric analysis of minerals. *Dokl. Akad. Nauk SSSR* 242 (1978) 423 (In Russian)
- PONCE-VÉLEZ, M. A., CAMPOS-LÓPEZ, E. (Ctr. Invest. Quim. Aplicada, Saltillo, Mexico): The thermal oxidation of Guayule and Hevea rubbers by dinamic differential scanning calorimetry. *J. Appl. Polym. Sci.* 22 (1978) 2485
- POPESCU, F., PETREUS, O., PEREC, S., AGHERGHINEI, I.: Thermal behavior of macromolecular phosphorus flame retardants and their mixture with flammable polymers. *First. Int. Congr. Phosph. Comp. Proc. Phosph. Comp. Their Non-Fertilizer Appl. — Int. Between Pure and Appl. Chem., Ist Int. Congr. Phosph. Comp., Rabat, Morocco, Okt. 17—21 (1977) 307*
- PRADO, G. P., HOWARD, J. B. (MIT, Dept. Chem. Engr., Cambridge, Mass., 02139 USA): Formation of large hydrocarbon ions in sooting flames. *Evaporation-Combust. Fuels 172nd Meeting Amer. Chem. Soc. San Francisco, Calif., Aug. 31—*

- Sept. 1, 1976, *Edit. J. T. Zung, Amer. Chem. Soc., Wash.* (1978) 153
- PRAKOURAS, A. G., VACHON, R. I., CRANE, R. A., KHADER, M. S. (Ethyl Corp., Thessalonika, Greece): Thermal conductivity of heterogeneous mixtures. *Int. J. Heat Mass Transfer* 21 (1978) 1157
- PRASAD, A. (Reg. Inst. Technol., Dept. Mech. Engrn., Jamshedpur, Bihar, India): Effect of temperature-dependent heat capacity on aerodynamic ablation of melting bodies. *AIAA J.* 16 (1978) 1004
- PRASAD, J. S. (Univ. Mysore, Dept. Phys., Mysore, 570006 India): On the molecular structure packing coefficients and thermal stabilities of the homologous series p-methoxy-XY-p'-alkyl tolanes. *Mol. Cryst. Liquid Cryst.* 47 (1978) 115
- PRATT, W. P., UHER, C. (Michigan State Univ., Dept. Phys., E. Lansing, Mich. 48824 USA): Thermal conductivity of bismuth at ultralow temperatures. *Phys. Lett. A* 68 (1978) 74
- PRICE, D. L., CLINTON, W. L., COHEN, M. H., FREEMAN, A. J., SEIDEN, P. E. (Argonne Natl. Lab., Argonne, Ill., 60439 USA): Electronic, optical, magnetic and thermal properties. *Mater. Sci. Engrn. Direct. Energy Related Basic Mater. Res.* 35 (1978) 1
- PRINS, G., CORDFUNKE, E. H. P., OUWELTJES, W. (Netherlands Energy Res. Fdn. ECN, Petten, Netherlands): Standard enthalpies of formation of uranium compounds. V. UO_2Br_2 , $\text{UO}_2\text{Br}_2\text{H}_2\text{O}$, $\text{UO}_2\text{Br}_2 \cdot 3 \text{H}_2\text{O}$ and $\text{UO}_2(\text{OH})\text{Br}_2 \cdot 2 \text{H}_2\text{O}$. A comment on the stability of uranyl iodide and its hydrates. *J. Chem. Thermodyn.* 10 (1978) 1003
- PTASZYŃSKI, B. (Polytech. Inst. Łódź, Inst. Gen. Chem. Łódź, Poland): Studies on thermal decomposition of fluoroantimonates(III). IV. Thermal decomposition of compounds of $\text{M}[\text{Sb}_2\text{F}_7]$ ($\text{M} = \text{K}, \text{Rb}, \text{Cs}$) type. *Polish J. Chem.* 52 (1978) 1347
- PYUN, S., MÜLLER, F., HAUCK, D. (Rhein. Westfal. T. H. Aachen, Inst. Gesteins-hüttenkunde, D-5100 Aachen, GFR): Thermochemische Untersuchung des quasibinären Systems $\text{PbO}-\text{GeO}_2$ nach der EMK-Methode. *Z. Phys. Chem.* 108 (1977) 195
- RACHWALSKA, M., STANEK, T. (Jagiellonian Univ., Inst. Chem., Chem. Phys. Lab., PL-30060 Kraków, Poland): An adiabatic calorimetric study of the phase situation in $[\text{Ni}(\text{H}_2\text{O})_6](\text{ClO}_4)_2$. *Phys. Status Solidi A* 48 (1978) 297
- REICH, L., STIVALA, S. S. (Stevens Inst. Technol., Dept. Chem. and Chem. Engr., Hoboken, N. J., 07030 USA): Kinetic parameters from DTA curves. *Thermochim. Acta* 25 (1978) 367
- RICHARDS, E. A., BERGERON, C. G. (Univ. Illinois, Dept. Ceram. Engr., Urbana, Ill., 61801 USA): Viscosity molar volume, and enthalpy of fusion of $3 \text{Bi}_2\text{O}_3 \cdot 5 \text{B}_2\text{O}_3$. *J. Amer. Ceram. Soc.* 61 (1978) 459
- RICHARDS, G. N., SHAFIZADEH, F. (James Cook Univ., N. Queensland, Dept. Chem. and Biochem., Townsville, 4811 Queensland, Australia): Mechanism of thermal degradation of sucrose. A preliminary study. *Aust. J. Chem.* 31 (1978) 1825
- RICHARDSON, W. H., ANDERECK, J. H., PRICE, M. E., CRAWFORD, R. (Calif. State Univ. San Diego, Dept. Chem., San Diego, Calif., 92182 USA): Kinetics of the thermolysis of 3,3-bis(*p*-anisyl)-1,2-dioxetane. *J. Org. Chem.* 43 (1978) 4045
- RIPMEESTER, J. A., WRIGHT, D. A., FYFE, C. A., BOYD, R. K. (Natl. Res. Council Canada, Div. Chem., Ottawa, Ontario, Canada): Molecular motion and phase transitions in solid hexafluorobenzene + benzene complex by nuclear magnetic resonance and heat capacity measurements. *J. Chem. Soc. Faraday Trans. II*, 74 (1978) 1164
- ROBERTS, D. R., GATZKE, A. L. (Dow Chem. Co., Saran and Converted Prod. Res., Midland, Mich., 48640 USA): Thermal decomposition of poly(vinylidene chloride) prepared in presence of oxygen. *J. Polym. Sci.* 16 (1978) 1211
- RONDELEZ, F., URBACH, W., HERVET, H. (Coll. France, F-75231 Paris, 5 France): Origin of thermal conductivity anisotropy in liquid crystalline phases. *Phys. Rev. Lett.* 41 (1978) 1058
- SABBAH, R., LAFFITTE, M. (CNRS, Ctr. Rech. Microcalorimetrie et Thermochim., 26 Rue 141e R. J. A., F-13003 Marseilles, France): Valeurs énergétiques de quelques liaisons chimiques. *Thermochim. Acta* 25 (1978) 376

- SAKHAROVA, Y. G., PEROV, V. N. (N. G. Chernyshevskii State Univ., Saratov, USSR): Thermal stability of thiocarbamide compounds of lanthanum, cerium and praseodymium chlorides. *Zh. Neorg. Khim.* 23 (1978) 2637 (In Russian)
- SAKODINSKY, K. I., OSTROVSKY, V. E., GLASUNOVA, L. D. (L. Y. Karpov Physico-chem. Res. Inst., Moscow, USSR): Study of some polymeric sorbents by adsorptive and calorimetric methods. *J. Chromatogr.* 156 (1978) 233
- SANDERS, R. E., STARKE, E. A. (Georgia Inst. Technol., Sch. Chem. Engr. and Met., Atlanta, Ga., 30332 USA): Effect of intermediate thermomechanical treatments of fatigue properties of a 7050 aluminium alloy. *Metal. Trans. A* 9 (1978) 1087
- SANGALOV, Y. A., PROCHUKHAN, Y. A., MINSKER, K. S. (Acad. Sci. USSR, Inst. Chem., Ufa, USSR): Thermal catalytic degradation of polyisobutylene. *Vysokomol. Soedin. A* 20 (1978) 686 (In Russian)
- SANGIOVANNI, J. J. (United Technol. Res. Ctr., E. Hartford, Conn., 06108 USA): Model for nonsteady ignition and combustion of a fuel droplet. *Evaporation-Combust. Fuels 172nd Meeting Amer. Chem. Soc. San Francisco, Calif., Aug. 31-Sept. 1, Edit. J. T. Zung, Amer. Chem. Soc., Wash.* (1978) 27
- SARISABAN, S., BEKÂROĞLU, Ö., WYDEN, H. (Tech. Univ. Istanbul, Fac. Chem., Istanbul, Turkey): The preparation and thermal decomposition of two diamino-glyoxime complexes. *Thermochim. Acta* 25 (1978) 349
- SAVITSKY, E. M., JEFIMOV, J. V., MULLER, P., MUCHIN, G. G., REVJAKIN, A. V., FROLOVA, T. M. (A. A. Baikov Met. Inst., Moscow, USSR): Effect of cooling rate on structure of high-melting transition metals and their alloys. *Kristall. Technik* 13 (1978) 863
- SAZANOV, Y. N., FEDOROVA, G. N., SHCHERBAKOVA, L. M., NOSOVA, G. I. (Acad. Sci. USSR, Inst. Macromolec. Cpd. Leningrad, USSR): Thermal stability of the polyamides based on bis-(n-aminophenyl)methane derivatives. *Vysokomol. Soedin. A* 20 (1978) 2213 (In Russian)
- SCHMIDTKE, H. H., SCHÖNHERR, T. (Univ. Düsseldorf, Inst. Theoret. Chem., D-4000 Düsseldorf, 1 GFR): Darstellung von Iso-cyanatopentamminochromat(III) mittels thermischer Zersetzung von Harnstoff. *Z. Anorg. Allg. Chem.* 443 (1978) 225
- SCHOELLER, W. W., BRINKER, U. H. (Univ. Bielefeld, Fak. Chem., D-4800 Bielefeld, GFR): On the thermal reaction of vinyl-cyclopropylidene to cyclopentenylidene. An exploration of the electronic hypersurface. *J. Amer. Chem. Soc.* 100 (1978) 6012
- SCHOMBURG, J., STÖRR, M. (Ernst Moritz Arnot Univ., DDR-22 Greifswald, GDR): Kombinierte thermische Analyse an Dreischichttonmineralen. *Thermochim. Acta* 25 (1978) 313
- SCHUG, K. P., WAGNER, H. G. (Univ. Göttingen, Inst. Phys. Chem., D-3400 Göttingen, GFR): Thermal decomposition of UF₆ gas phase. *Z. Phys. Chem.* 108 (1977) 173
- SCHULZ, B. (Kernforschungszentrum Karlsruhe, Inst. Mat. and Festkörperforsch. 1, Postfach 3640, D-7500 Karlsruhe, GFR): Remarks on the thermal and electrical conductivity of porous materials. *J. Non-Equil. Thermodyn.* 3 (1978) 267
- SEABAUGH, P. W., JORDAN, K. C. (Mound Facil., Miamisburg, Ohio, 45342 USA): Calorimetric determination of the half life of plutonium-239. *Int. J. Appl. Radiat. Isotop.* 29 (1978) 489
- SEKIGUCHI, Y., OGAWA, T., KUROKI, T., IKEMURA, T. (Nihon Univ., Coll. Sci. and Technol., Dept. Ind. Chem., Chiyodaku, Tokyo, 101 Japan): Kinetic study on thermal degradation of polystyrene. *Jap. Polym. Sci. Techn.* 35 (1978) 581
- SEMENCHENKO, V. K., ERMAKOVA, T. A. (M. V. Lomonosov State Univ., Moscow, 117234 USSR): Assessment of compatibility of polymers on basis of thermodynamic stability and theory of solutions. *Vysokomol. Soedin. A* 20 (1978) 1674 (In Russian)
- SHARMA, S. C. (Naval Chem. and Met. Lab., Bombay, 400023 India): Ionization potentials and heats of formation of some non-benzenoid hydrocarbons and heterocyclic molecules. *Indian J. Phys. B* 52 (1978) 13
- SHASHENKOV, L. I., SOKOLOV, G. A., KOSSOVA, V. P.: Correlation between phase transformations and sinter failure during

- heating and reduction. *Russ. Metal.* transl. *Izv. Akad. Nauk USSR Metall.* (1977) 10
- SHASHKOV, D. P. (Moscow Highway Engn. Inst., Moscow, USSR): Nitrogenizing influence on heat resistance and brittleness of niobium VN2AE alloy. *Fiz. Metal. Metalloved.* 46 (1978) 396 (In Russian)
- SHLAPAK, A. N., BELOBORODOVA, E. A., BATALIN, G. I.: Enthalpies of mixing of binary liquid alloys of germanium with vanadium and titanium. *Zh. Fiz. Khim.* 52 (1978) 2097 (In Russian)
- SILVER, F. M., DOBINSON, F., RIDGWAY, J. S. (Monsanto Textiles Co., Pensacola, Fla., 32575 USA): Aromatic polyamides. III. Copoly(4,4'-oxaniliderephthalamide-4,4'-phenyleneterephthalamide). Synthesis, wet-spinning, fiber thermal characterization, and stability in sulfuric acid. *J. Polym. Sci.* 16 (1978) 2151
- SINGH, G., SINGH, R. R. (Univ. Gorakhpur, Dept. Chem., Gorakhpur, 273001, Uttar Pradesh, India): Kinetics of catalysed thermal decomposition of ammonium perchlorate. *Indian J. Chem.* 16 (1978) 406
- SIRIGNANO, W. A., LAW, C. K. (Princeton Univ., Princeton, N. J., 08540 USA): Transient heating and liquid-phase mass diffusion in fuel droplet vaporization. *Evaporation-Combust. Fuels*, 172nd Meeting Amer. Chem. Soc., San Francisco, Calif. Aug. 31—Sept. 1, 1976, Edit. J. T. Zung, Amer. Chem. Soc., Wash. (1978) 3
- SLIN'KO, M. G., GORELIK, A. G., OKS, L. I., POLOTNYUK, O. Y. (Rubezhany Dyestuff Ind. Combine, Rubezhany, USSR): Effective linear thermal conductivity of an organized fluidized bed of catalyst. *Kinet. Catal. transl. Kinet. Katal.* 19 (1978) 211
- SOKOLOVA, D. F., KUDIM, T. V., SOKOLOV, L. B., ZHEGAJOVA, N. I., ZHURAVLEV, N. D. (All Union Synthet. Resin. Res. Inst., Vladimir, USSR): Thermochemical evaluation of ordering in copolymeric polyarylates. *Vysokomol. Soedin. B* 20 (1978) 596 (In Russian)
- SPIRIN, G. G.: Thermography on basis of thermal conductivity measurements. *Vysokomol. Soedin. A* 20 (1978) 1668 (In Russian)
- SPITZER, J. J., SINGH, P. P., OLAFSSON, I. V., HEPLER, L. G. (Univ. Lethbridge, Dept. Chem., Lethbridge T1K 3M4, Alberta, Canada): Apparent molar heat capacities and volumes of aqueous electrolytes at 25°: Cd(ClO₄)₂, Ca(ClO₄)₂, Co(ClO₄)₂, Mn(ClO₄)₂, Ni(ClO₄)₂, Zn(ClO₄)₂. *J. Solut. Chem.* 7 (1978) 623
- SRIVASTAVA, S. P. (Indian Inst. Petr., Analyt. Phys. Lab., Dehra Dun, 248005 Uttar Pradesh, India): High temperature dependence of thermal expansion coefficient of lithium fluoride. An interatomic potential approach. *J. Phys. Chem. Solids* 39 (1978) 1143
- STEELE, W. V. (Univ. Stirling, Dept. Chem., Stirling, FK9 4LA, Stirlingshire, Scotland): The standard enthalpies of formation of a series of C₇ bridgedring hydrocarbons: norbornane, norbornene, nortricycene, norbornadiene, and quadricyclane. *J. Chem. Thermodyn.* 10 (1978) 919
- STEPIN, B. D., LOVETSKAYA, G. A., IOFFE, O. V.: Thermochemistry of aqueous solutions of sodium and rubidium nitrates at 25°. *Zh. Neorg. Khim.* 23 (1978) 2247 (In Russian)
- STEWART, G. R., GIORGI, A. L., KRUPKA, M. C. (Univ. Calif., Los Alamos Sci. Lab., Los Alamos, N. M., 87545 USA): The specific heat of Y_{0.7}Th_{0.3}C₁₋₈₈. *Solid State Commun.* 27 (1978) 413
- STRONGIN, M., CLINTON, W. L., MERCEREAU, J. E., WHEATLEY, J. C. (Brookhaven Natl. Lab., Upton, N. Y., 11973 USA): Low temperature research and superconductivity. *Mater. Sci. Engr. Directions Energy-Related Basic Mater. Res.* 35 (1978) 57
- SUNDQUIST, B., BÄCKSTRÖM, G. (Univ. Umeå, Dept. Phys., S-90187 Umeå, Sweden): Thermal conductivity of gold and silver at high pressures. *J. Phys. Chem. Solids* 39 (1978) 1133
- SVETLOV, I. L., NAZAROVA, M. P., KHUSNETDINOV, F. M., GUJK, N. V., BRATYSHEV, V. L. (All Union Aviat. Mat. Res. Inst., Moscow, USSR): Heat stability of structure of deformed filamentary Co(Cr, Ni)-TaC eutectic. *Fiz. Metal. Metalloved.* 46 (1978) 310 (In Russian)
- TAHER, S. M. A., GRUBER, J. B., HO, J. C., YEH, D. C. (Wichita State Univ., Dept. Phys., Wichita, Kans., 67208 USA): Low-temperature heat capacities of rare earth

- sesquisulfides. *13th Rare Earth Res. Conf. held at Wilson Lodge, Wheeling, West Virginia, Oct. 16–19, 1977, Edit. G. J. McCarthy, Rhyne, J. J., New York* (1978) 359
- TANAKA, S. (Natl. Chem. Lab. Ind., 1–1–5 Honmachi, Shibuya-ku, Tokyo, 151 Japan): Transform of a thermogram into a thermogenesis curve by the use of the frequency transfer function of a calorimeter. *Thermochim. Acta* 25 (1978) 269
- TASHIRO, K., SAITO, M., TSUZUKU, T. (Nihon Univ., Coll. Med., Itabashi-ku, Tokyo, Japan): Anomalous specific heat due to order-disorder transition in graphite-halogen intercalation compound. *Carbon* 16 (1978) 292
- TAVALARIDIS, A., NEEB, R. (c/o R. Neeb, Univ. Mainz, Inst. Anorgan. und Analyt. Chem., D-6500 Mainz, GFR): Gas-chromatographische Elementanalyse über Di(trifluoräthyl)dithiocarbamatochelate. I. Thermogravimetrisches Verhalten und Dampfdrucke einiger Di(trifluoräthyl)dithiocarbamatochelate. *Fresenius Z. Anal. Chem.* 292 (1978) 135
- TERASHIMA, S. (Geol. Survey Japan, Hisamoto 135, Kawasaki, 213 Japan): The rapid determination of total carbon and sulfur in geological materials by combustion and infrared absorption photometry. *Anal. Chim. Acta* 101 (1978) 25
- TERLEMEZYAN, L., MIHAJLOV, M., SCHMIDT, P., SCHNEIDER, B. (Bulgarian Acad. Sci., Polymers Cent. Lab., BU-1113 Sofia, Bulgaria): Temperature changes of poly(oxyethylene) structures studied by infrared spectroscopy. *Makromol. Chem.* 179 (1978) 2315
- TIJERO, E., BLADE, J. (Sociedad Anonima Cros Paseo, Gracia, 56 Barcelona, 7 Spain): Phosphates and ammonium polyphosphates as fire retardants for paper and wood, in inhumiscent coating formulation and in forest fire-fighting. *First Int. Congr. Phosph. Comp. Proc. Proc. Phosph. Comp. Their Non Fertilizer Appl. — Int. Between Pure and Appl. Chem.* Rabat, Morocco, Okt. 17–21 (1977) 235
- TOMLINSON, W. J., YATES, J. (Lanchester Polytech., Dept. Appl. Sci., Eastlands, Rugby, England): High-temperature oxidation kinetics of Cu–Si alloys containing up to 4.75 wt % Si in $p\text{O}_2 = 0.01$ atm and pure CO_2 . *Oxidat. Metals* 12 (1978) 323
- TOMSINSKIY, V. S., IVANOV, A. S., GAVRILOVA, O. V.: Decomposition of metastable phases on heating quenched titanium alloy VT23. *Russ. Metal. transl. Izv. Akad. Nauk USSR Metal.* (1977) 127
- TRISCHLER, F. (Chem. Fabrik Gedeon Richter A. G., Postfach 27, H-1475 Budapest, Hungary): Thermometric analysis of dihydrazinophthalazine sulphate by TET and DIE methods. *Fresenius Z. Anal. Chem.* 292 (1978) 141
- TROITSKY, B. B., TROITSKAYA, L. S.: Thermal ageing and stabilization of polyvinylchloride. *Vysokomol. Soedin. A* 20 (1978) 1443 (In Russian)
- TSAI, C. L., WEINSTOCK, H., OVERTON, W. C. (L. L. T., Chicago, Ill., 60616 USA): Low temperature thermal conductivity of sty-cast 2850 FT. *Cryogenics* 18 (1978) 562
- TSANG, W. (NBS, Inst. Mat. Res., Washington, D. C., 20234 USA): Thermal stability of intermediate sized acetylenic compounds and the heats of formation of propargyl radicals. *Int. J. Chem. Kinet.* 10 (1978) 687
- TSANG, W. (NBS, Inst. Mat. Res., Washington, D. C., 20234 USA): Evidence for strongly temperature-dependent α factors in alkane decomposition and high heats of formation for alkyl radicals. *Int. J. Chem. Kinet.* 10 (1978) 821
- TSOI, P. V. (Tadzhik Polytech. Inst., Dushawbe, TaSSR): Thermal conductivity and stresses in shells with asymmetric heating. *High Temp. transl. Teplofiz. Vysok. Temp.* 16 (1978) 96
- TSUCHIYA, R., UEHARA, A., NOJI, K., YAMAMURA, H. (Kanazawa Univ., Fac. Sci., Dept. Chem., Kanazawa, Ishikawa, 920 Japan): Preparation and solid-phase thermal cis- $\alpha \leftrightarrow$ cis- β isomerization of the chromium(III) triethylenetetramine complexes. *Bull. Chem. Soc. Jap.* 51 (1978) 2942
- TSVETKOV, N. S., SHUKOVSKIY, V., Y., MAKITRA, R. G., PIRIG, Y. N. (I. Franko State Univ., Lvov, UkrSSR): Solvent effects on the rates of thermal decomposition of polymeric-peroxide of azelainic acid. *Org. React. transl. Reakt. Spasobn. Org. Soedin.* 15 (1978) 67
- TUROVSKII, A. A., SERDYUK, A. I., KUCHER, R. V., BATOG, A. E. (Donetsk State Univ., Donetsk, UkrSSR): Thermal decomposi-

- tion characteristics of methoxy-tert-butylperoxycyclohexenylmethane in various solvents. *Zh. Org. Khim.* 14 (1978) 1877 (In Russian)
- VAN TIL, A. E., JOHNSON, D. C. (U. O. P. Inc., Corp. Res., Des Plaines, Ill., 60016 USA): Estimation of errors in differential thermometric titrimetry. *Thermochim. Acta* 25 (1978) 261
- VARFOLOMEYER, M. B., NARNOV, B. A., BURLYAYEV, V. V. (Moscow Fine Chem. Technol. Inst., Moscow, USSR): Crystal chemical identification of high-temperature modifications LnSbO_4 (Ln—Nd—Lu and Y). *Kristallografiya* 23 (1978) 1040 (In Russian)
- VARMA, I. K., SHARMA, K. K. (Indian Inst. Technol., Dept. Chem., New Delhi, 110029 India): Thermal degradation of poly(vinyl chloride) in presence of additives. *Angew. Makromol. Chem.* 71 (1978) 157
- VARMA, I. K., SUNDARI, V. S., VARMA, D. S. (Indian Inst. Technol., Fiber Sci. Labs., New Delhi, 110029 India): Thermal behavior of aryl-aliphatic polyamides. *J. Appl. Polym. Sci.* 22 (1978) 2857
- VARMA, R. P., KUMAR, K. (c/o K. Kumar, DIV Coll., Dept. Chem., Meerut, 250002 India): Thermal decomposition of magnesium soaps. *J. Indian Chem. Soc.* 55 (1978) 675
- VEIDERMA, M., PYLDME M., PYLDME, J.: Reaction between condensed phosphates and natural phosphates or fluorite by heating. *First Int. Cong. Phosph. Comp. Proc. Phosph. Comp. Their Non-Fertilizer Appl.-Int. Between Pure and Appl. Chem., Rabat, Morocco, Okt. 17–21* (1977) 449
- VELASCO, I., OTIN, S., GUTIERREZIOSA, C. (Univ. Saragossa, Fac. Ciencias, Dept. Quim. Fis., Saragossa, Spain): Excess enthalpies of some aliphatic amine/normal hexane or benzene mixtures. *J. Chim. Phys.* 75 (1978) 706
- VUH, A. (Hydro Quebec, Inst. Res., Varennes, Quebec, Canada): On the activation energies for the thermal oxidation of metals. *Mater. Chem.* 3 (1978) 105
- VINOGRADOV, I. V., KONAREV, M. I., ZAITSEVA, L. L.: Thermal stability of rubidium and cesium hexaiodotechnates. *Zh. Neorg. Khim.* 23 (1978) 2540 (In Russian)
- VINOGRADOVA, N. K., PAVLOVA, S. S. A., ZHURAVLEVA, I. V., KOMAROVA, L. G., BEKASOVA, N. I., KORSHAK, V. V. (Acad. Sci. USSR, Inst. Organoelement. Cpd., Moscow, V-71 USSR): The effect of carboranic group content on the thermal stability of carborane containing polyarylates. *Vysokomol. Soedin. A* 20 (1978) 2116 (In Russian)
- VICHNYAKOV, A. V., DUBROVIN, V. I., KOVTUNENKO, P. V. (D. I. Mendeleev Chem. Technol. Inst., Moscow, USSR): Thermal dissociation of lead sulfite. *Zh. Neorg. Khim.* 23 (1978) 2244 (In Russian)
- WANG, R. Y. P., CAPPELLETTI, R. L. (Ohio Univ., Dept. Phys., Athens, Ohio, 45701 USA): Specific heat measurement in superconducting and normal state Ta—Nb—V-ternary solid solutions. *J. Low Temp. Phys.* 32 (1978) 481
- WATSON, N. A. (Univ. Canterbury, Dept. Math., Christchurch, New Zealand): Thermal capacity. *Proc. London Math. Soc.* 37 (1978) 342
- WAYDA A. L., EVANS, W. J. (c/o W. J. EVANS, Univ. Chicago, Dept. Chem., Chicago, Ill., 60637 USA): Synthesis and thermal decomposition of homoleptic tert-butyl lanthanide complexes. *J. Amer. Chem. Soc.* 100 (1978) 7119
- WEN, W. Y., LIN, J. W. (Honeywell Inc., Plast. Mat. and Proc. Lab., Hopkins, Minn., 55343 USA): Thermal analysis of styrene-alkyl methacrylate polymers. II. Thermogravimetric kinetics. *J. Appl. Polym. Sci.* 22 (1978) 2285
- WEISS, D. S. (Univ. Michigan, Dept. Chem., Ann Arbor, Mich., 48109 USA): Thermal probes of the photochemistry of 6-substituted 2-methyl-2-alkoxycarbonyl-cyclohexanones. *Mol. Photochem.* 8 (1977) 477
- WESTRUM, E. F., LANDEE, C. P., TAKAHASHI, Y., CHAVRET, M. (Univ. Michigan, Dept. Chem., Ann Arbor, Mich., 48109 USA): Thermodynamics of the monohydrogen difluorides. VI. Heat capacities of RbHF_2 and CsHF_2 from 300 to 530 K, transitions and melting. *J. Chem. Thermodyn.* 10 (1978) 835
- WESTRUM, E. F., MCKERVEY, M. A., ANDREWS, J. T. S., FORT, R. C., CLARK, T. (Univ. Michigan, Dept. Chem., Ann Arbor, Mich., 48109 USA): Heat capacity

- and thermodynamic properties of diamantane from 5 to 540 K. *J. Chem. Thermodyn.* 10 (1978) 959
- WHITE, P. A. (May and Baker Ltd., Tech. Informat. Sect., Dagenham, RM10 7XS Essex, England): Thermal decomposition of BHA. *J. Amer. Oil Chem. Soc.* 55 (1978) 739
- WOLFLE, P., EINZEL, D. (Tech. Univ. München, Inst. Theoret. Phys., D-8046 Garching, GFR): Transport and relaxation properties of superfluid ^3He . II. Viscosity, thermal conductivity and relaxation of normal fluid density. *J. Low Temp. Phys.* 32 (1978) 39
- WOYCICKA, M., KALINOWSKA, B. (Polish Acad. Sci., Inst. Phys. Chem., Kasprzaka 44–52, PL-01224, Warsaw, Poland): Excess enthalpy and heat capacity of diluted propionic acid solutions in normal-heptane. *Bull. Acad. Pol. Sci.* 26 (1978) 371
- WROBLESKI, J. T., BROWN, D. B. (c/o D. B. Brown, Univ. Vermont, Dept. Chem., Burlington, Vt., 05401 USA): Physical and chemical properties of squarate complexes. I. Spectral, magnetic, and thermal behavior of dimeric iron(III) squarate, *Inorg. Chem.* 17 (1978) 2959
- YAMAGISHI, F. G., SMYTHE, D. S., MILLER, L. J., MARGERUM, J. D. (Hughes Res. Labs., 3011 Malibu Canyon Rd., Malibu, Calif., 90265 USA): Photochemical and thermal stability studies on a liquid crystal mixture of cyanobiphenyls. *Symp. Div. Colloid Surface Chem. Liquid Fluids held Chicago, Ill., Aug. 30–Sept. 3, 1977, Edit. J. F. Johnson, R. S. Porter, Plenum Press New York* (1978) 475
- YOKOBAYASHI, H., NAGASE, K., SONE, K. (c/o K. Nagase, Tohoku Univ., Coll. Gen. Educ., Sendai, Miyagi, 980 Japan): Synthesis and thermal properties of some bivalent transition metal complexes with 1,4-diazabicyclo[2.2.2]octane. *Bull. Chem. Soc. Jap.* 51 (1978) 2569
- YOSIM, S. J., BARCLAY, K. M., GRANTHAM, L. F. (Rockwell Inst., Div. Atom Inst., 8900 DeSoto Ave., Canoga Pk., Calif., 91304 USA): Destruction of pesticides and pesticide containers by molten salt combustion. *Symp. Disposal Decontamination Pesticides, Chicago, Ill., Aug. 29–Sept. 2, 1977, Edit. M. V. Kennedy, Amer. Chem. Soc., Washington* (1978) 118
- ZAVGORODNIY, P. F., SEVOSTYANOV, G. M.: Thermal convection in a solidifying melt. *Russ. Metal. transl. Izv. Akad. Nauk SSSR Metal.* (1977) 90
- ZELENOV, V. I., AFANASEV, Y. A., ASLANYAN, L. A., PANYUSHKIN, V. T. (Kuban State Univ., Krasnodar, USSR): Thermochemical study of complex formation of ytterbium chloride with vitamin-6B. *Zh. Neorg. Khim.* 23 (1978) 2538 (In Russian)
- ZIMINA, N. K. (Moscow Transport Engn. Inst., Moscow, USSR): Thermal accommodation during study of heat conductivity in nitrogen-tungsten system. *Zh. Fiz. Khim.* 52 (1978) 1900 (In Russian)
- ZIMINA, N. K., KUNITSA, R. I. (Moscow Transport Engn. Inst., Moscow, USSR): Thermal accomodation during study of heat conductivity in argon-tungsten system. *Zh. Fiz. Khim.* 52 (1978) 1895 (In Russian)
- ZMITRENKO, N. V., KURDYUMOV, S. P., MIKHAILOV, A. P., SAMARSKII, A. A. (Acad. Sci. USSR, Inst. Appl. Math., Moscow, V-71 USSR): Localization of thermonuclear combustion in a plasma with electronic thermal conductivity. *JETP Lett. transl. Pisma Zh. Eksp. Teoret. Fiz.* 26 (1977) 469