

Bibliography Section

- ABRAHAM, M. H., DANIL DE NAMOR, A. F., SCHULZ, R. A. (Univ. Surrey, Dept. Chem., Guilford GU2 5XH, Surrey, England): Heats of solution of 1 : 1 electrolytes in 1,2- and 1,1-dichloroethane and derived enthalpies and entropies of transfer of electrolytes from water to these solvents. *J. Solut. Chem.* 5 (1976) 529
- ADEOSUN, S. O., SIME, S. J. (Univ. Ife, Dept. Chem., Ile Ife, Nigeria): Properties of molten carboxylates. 4. A quantitative differential thermal analysis study of melting and mesophase formation in some lead(II) carboxylates. *Thermochim. Acta* 17 (1976) 351
- AKUTSU, K., NOTO, K., FUKASE, T., TOYOTA, N., MUTO, Y. (Tohoku Univ., Iron Steel and Other Met. Res. Inst., Sendai, Miyagi 980, Japan): Internal heating effect in the mixed state of an A-15 type V_3Si single crystal. *J. Phys. Soc. Jap.* 41 (1976) 1431
- AL-ASTRABADI, F. R., O'CALLAGHAN, P. W., JONES, A. M., PROBERT, S. D. (Cranfield Inst. Technol., Sch. Mech. Engr., Cranfield MK43 0AL, Bedfordshire, England): Thermal resistance of contacts between triglycene sulphate and germanium surfaces. *Infrared Phys.* 16 (1976) 649
- AMITIN, E. B., KOVALEVSKAYA, Y. A., PAUKOV, I. E. (Acad. Sci. USSR, Inorg. Chem. Inst., Novosibirsk, USSR): Behavior of a disordering system in tricritical and critical regions. Anomaly in specific heat of NH_4Cl at high pressures. *Zh. Eksp. Teor. Fiz.* 71 (1976) 700 (In Russian)
- ANDRONOV, E. A., KUKUSHKIN, Y. N., LUKICHEVA, T. M., KONOVALOV, L. V., BAKHIREVA, S. I., POSTNIKOVA, E. S. (Lensovet Technol. Inst., Leningrad, USSR): Thermoisomerization of platinum(II)bis thio-ether complexes. *Zh. Neorg. Khim.* 21 (1976) 2443 (In Russian)
- ANDRONOV, E. A., KUKUSHKIN, Y. N., LUKICHEVA, T. M., KOTELNIKOV, V. P., SHCHERBAKOV, Y. S. (Lensovet Technol. Inst., Leningrad, USSR): Course of thermal decomposition of platinum(II) complexes. *Zh. Neorg. Khim.* 21 (1976) 2956 (In Russian)
- ANG, L. T., GRADDON, D. P. (Univ. New S. Wales, Sch. Chem., Kensington, 2033, New S. Wales, Australia): Thermochemical study of the reaction of Lewis bases with zinc, cadmium and mercury halides in solution. *J. Inorg. Nucl. Chem.* 38 (1976) 2279
- ANTONOVA, N. L., SEDYKH, T. S., PUSTIL'NIK, A. I., KUTSEV, V. S. (Moscow Rare Met. Ind. Res. and Design. Inst., Moscow, USSR): Thermal stability of glass based on Y_2D_3 , SiO_2 and Al_2O_3 . *Inorg. Mater.* transl. *Izv. Akad. Nauk SSSR Neorg. Mater.* 12 (1976) 670
- ANTSIFEROV, V. N., DEMIDOVA, L. A., KUNEVICH, A. P. (Perm Polytech. Inst., Perm, USSR): Temperature stability of vanadium hydrides. *Izv. Vyssh. Uch. Zav. Fiz.* (1976) 131 (In Russian)
- ARNETT, E. M., SMALL, L. E., OANCEA, D., JOHNSTON, D. (Univ. Pittsburgh, Dept. Chem., Pittsburgh, Pa., 15260 USA): Heats of ionization of some phenols and benzoic acids in dimethyl sulfoxide. Heats of solvation of oxyanions in dimethyl sulfoxide and water. *J. Amer. Chem. Soc.* 98 (1976) 7346
- ASAHARA, Y., IZUMITANI, T. (Hoya Glass Works Ltd., Tokyo, Japan): Thermal relaxation process in amorphous As-Se films. *J. Appl. Phys.* 47 (1976) 4882

- AVERKIN, A. A., LOGACHEV, Y. A., PETROV, A. V., SELEVNEV, V. E., TSYPKIN, N. J. (A. F. Joffe Engr. Phys. Inst., Leningrad, USSR): Thermoconductivity of PbBr under pressure in the region of phase transition. *Fiz. Tverd. Tela* 18 (1976) 3171 (In Russian)
- BACHI, M. D., VAYA, J. (Weizmann Inst. Sci., Dept. Org. Chem., Rehovoth, Israel): Azetidino-2-oxo-4-thiones. Novel thermolytic products of β -lactam sulfoxides. *J. Amer. Chem. Soc.* 98 (1976) 7825
- BAILEY, R. A., TANGREDI, W. J. (Rensselaer Polytech Inst., Dept. Chem., Troy, N. Y., 12181 USA): Thermal decomposition of metal complexes with thioureas. *J. Inorg. Nucl. Chem.* 38 (1976) 2221
- BAKAEV, I. I., MALINKA, V. S.: Relative combustibility of substances in thermocatalytic data unit. *Zh. Fiz. Khim.* 50 (1976) 2654 (In Russian)
- BALL, M. C., CASSON, M. J. (Loughborough Univ. Technol., Dept. Chem. Loughborough, LE11 3TU England): Thermal studies on lead(II) salts. 3. The decomposition of laurionite, lead(II) hydroxide chloride. *Thermochim. Acta* 17 (1976) 361
- BALL, M. C., CASSON, M. J. (Loughborough Univ. Technol., Dept. Chem., Loughborough, LE11 3TU England): Thermal studies on lead(II) salts. 4. The thermal decomposition of phosgenite, lead chloride carbonate $Pb_2Cl_2CO_3$. *Thermochim. Acta* 17 (1976) 368
- BALLA, J. (Acad. Sci. Hung., Cent. Res. Inst. Phys., 1525 Budapest, Hungary): Temperature measurement in the range 300 K to 10^{-5} K. *Mérés és Automatika* 24 (1976) 424 (In Hungarian)
- BARK, L. S., NYA, A. E. (Univ. Salford, Ramage Labs., Salford, M5 5WT Lancashire, England): The enthalpimetric determination of mixtures of chloride, bromide and iodide. *Anal. Chim. Acta* 87 (1976) 473
- BARK, L. S., PRACHUABPAIBUL, P. (Univ. Salford, Ramage Labs., Salford, M5 4WT England): Gas enthalpimetry. 1. Enthalpimetric determination of micro-amounts of some oxidants using sulphur dioxide as a gaseous titrant. *Fresenius Z. Anal. Chem.* 282 (1976) 201
- BARK, L. S., PRACHUABPAIBUL, P. (Univ. Salford, Ramage Labs., Salford, M5 4WT Lancashire, England): N-bromosuccinimide as a redox titrant in thermometric titrimetry. *Anal. Chim. Acta* 87 (1976) 505
- BARNARD, C. F. J., DANIELS, J. A., JEFFERY, J., MAWBY, R. J. (c/o R. J. Mawby, Univ. York, Dept. Chem., York, YO1 5DD England): Isomerism in carbonyldihalogenotris(phosphine)ruthenium(II) complexes: photochemical and thermal rearrangements. *J. Chem. Soc. Dalton Trans.* (1976) 1861
- BARNARD, J. A., PARROTT, T. K. (Univ. Coll. London, Dept. Chem. Eng., Torrington Place, London, WC1E 7JE England): Kinetics of the thermal unimolecular reactions of cyclohexene and 4-vinylcyclohexene behind reflected shock waves. *J. Chem. Soc. Faraday Trans. I.* 72 (1976) 2404
- BARRATT, P. J., SLOAN, D. M. (Univ. Strathclyde, Dept. Math., Glasgow G1 1XH Scotland): Thermal instabilities in nematic liquid crystals. *J. Phys. A* 9 (1976) 1987
- BARTA, C., ZHIGALOV, V. P., ZADOKHIN, B. S., KOVRYANOV, A. N., MARKOV, Y. F., CHASHKIN, Y. R. (A. F. Joffe Engr. Phys. Inst., Leningrad, USSR): Specific heat of extrinsic Hg_2Cl_2 ferroelastic at temperature range 100–273 K. *Fiz. Tverd. Tela* 18 (1976) 3116 (In Russian)
- BASHILOVA, N. I., NELYAPINA, N. I. (B. S. Kurnakov Gen. and Inorg. Chem. Inst., Moscow, USSR): Heterogeneous equilibria in the $Tl_2O_3-Tl_2O-SO_3H_2O$ system and thermal decomposition of thallium (I, II) sulfate. *Zh. Neorg. Khim.* 21 (1976) 2525 (In Russian)
- BATURIN, S. M., MANELIS, G. B., MELENT'EV A. G., NADGORNYY, E. M., OL'KHOV, Y. A., SHTEINBERG, V. G. (Acad. Sci. USSR, Solid State Phys. Inst., Moscow, USSR): Thermally stimulated depolarization of polyester-urethane elastomers. *Vysokomol. Soedin. A* 18 (1976) 2461 (In Russian)
- BEDEN, B. (UER Sci., Thermodynam. Chim. Electrochim. Lab., 40, Ave. Recteur Pineau, F-86022 Poitiers, France): Méthodes de prospective cinétique de l'équilibre. II. Aspects théoriques (suite). *Thermochim. Acta* 17 (1976) 273
- BELENKIN, A. I., ANDRIANOV, M. A., BAKUNOV, V. S., LEVI, V. S., POLUBOYARINOV,

- D. N., RABINOVICH, S., M., FIALKOV, A. S. (D. I. Mendeleev Chem. Technol. Inst., Moscow, USSR): High-temperature deformation of pyrolytic carbon under mechanical loads. *Inorg. Mater* transl. *Izv. Akad. Nauk SSSR Neorg. Mater.* 12 (1976) 36
- BELOV, K. P., KOROLEVA, L. I., BATOROVA, S. D., GORDEEV, I. V. (M. V. Lomonosov State Univ., Moscow, USSR): On temperature dependence of electroconductivity of $Cd_{1-x}Cu_xCr_2S_4$ compound. *Fiz. Tverd. Tela* 18 (1976) 3178 (In Russian)
- BELYAKOV, V. K., KOSOBUTSKII, V. A. (All Union Synth. Resin Res. Inst., Vladimir, USSR): Electronic structure and thermal stability of aromatic polyamides and polyheteroarylenes. *Vysokomol. Soedin. A* 18 (1976) 2452 (In Russian)
- BENVENUTI, C., CALDER, R. S., PASSARDI, G. (CERN, Geneva, Switzerland): The influence of thermal radiation on the vapor pressure of condensed hydrogen (and isotopes) between 2 and 4.5K. *J. Vac. Sci. Technol.* 13 (1976) 1172
- BLOM, F. A. P., BURG, J. W. (Eindhoven Univ. Technol., Dept. Phys., Eindhoven, Netherlands): Some thermomagnetic transport effects of Cd_3P_2 . *J. Phys. Chem. Solids* 38 (1977) 19
- BLUNDELL, D. J., RICKETSON, B. W. (Roy. Signals and Radar Estab., Malvern, Worcestershire, England): An equation to fit the resistance - temperature characteristics of germanium-doped sensors at high temperature. *Cryogenics* 16 (1976) 687
- BOGGS, W. E. (US Steel Corp., Res. Lab., Monroeville, Pa., 15146 USA): The high-temperature oxidation resistance of iron-silicon-aluminium alloys. *Oxidat. Metals* 10 (1976) 277
- BOO, W. O. J., STOUT, J. W. (Univ. Mississippi, Dept. Chem. University, Miss., 38677 USA): Heat capacity and entropy of MnF_2 from 10 to 300 °K. Evaluation of the contributions associated with magnetic ordering. *J. Chem. Phys.* 65 (1976) 3929
- BOR, GY., DIETLER, U. K., NOACK, K. (Swiss Fed. Inst. Technol., Dept. Ind. and Engr. Chem., CH-8092 Zürich, Switzerland): High temperature infrared spectrum of dicobalt octacarbonyl: predominance of the third isomer. *J. Chem. Soc. Chem. Commun.* (1976) 914
- BOTTO, I. L., BARAN, E. J. (Univ. Bacl. La Plata, Fac. Ciencias Exactas, Catedra Quim. Inorg., 1900 La Plata, Argentina): Ammonium uranyl vanadate and the products of its thermal decomposition. *Z. Anorg. Allg. Chem.* 426 (1976) 321
- BOUREAU, G., KLEPPA, O. J. (Univ. Chicago, James Franck Inst., Chicago, Ill., 60637 USA): High temperature thermodynamics of palladium-hydrogen. II. Temperature dependence of partial molar properties of dilute solutions of hydrogen in the range 500-700 K. *J. Chem. Phys.* 65 (1976) 3915
- BRABANT, J. C., PUGNET, M., BARBOLLA, J., BROUSSEAU, M. (Inst. Natl. Sci. Appl., Dept. Phys., CNRS, Phys. Solides Lab., F-31077 Toulouse, France): Studies of defects introduced by electron irradiation at 4.2 °K p-silicon by thermally stimulated capacitance technique. *J. Appl. Phys.* 47 (1976) 4809
- BRAZIER, D. W. (Dunlop Res. Centre, Sheridan Park Res. Community, Mississauga, Ontario, Canada): Thermoanalytical methods in vulcanizate analysis. Differential scanning calorimetry. Observations on the vulcanization process. *Thermochim. Acta* 18 (1977) 147
- BRENNAN, W. P. (Perkin-Elmer Corp., Div. Instr., Norwalk, Conn., 06856 USA): Some applications of thermal analysis as a supplement to or replacement for ASTM testing standards. *Thermochim. Acta* 18 (1977) 101
- BRENNAN, W. P. (Perkin-Elmer Corp., Div. Instr., Norwalk, Conn., 06856 USA): Some applications of differential scanning calorimetry for the analysis of polymers. *Thermochim. Acta* 17 (1976) 285
- BRUCE, R. H., CANNELL, D. S. (CUNY, City Coll., Dept. Phys., New York, N. Y., 10031 USA): Accurate method for the simultaneous determination of the thermal conductivity and specific heat of non-conducting solids. *Rev. Sci. Instr.* 47 (1976) 1323
- BURTSEVA, K. G. (N. Caucasian Min. Met. Inst., Ordzhonikidze, USSR): Heats of interaction of normal sodium tungstate and hydrochloric acid. *Zh. Neorg. Khim.* 21 (1976) 2818 (In Russian)
- BURYLEV, B. P. (Krasnodar Polytech. Inst., Krasnodar, USSR): Thermochemistry of

- hydrates of platinum and palladium chlorides. *Zh. Fiz. Khim.* 50 (1976) 2689 (In Russian)
- CAIN, L. S. (Univ. N. Carolina, Dept. Phys. and Astron., Chapel Hill, N. C., 27514 USA): The elastic constants and their temperature and pressure derivatives of AgBr—AgCl mixed crystals. *J. Phys. Chem. Solids* 38 (1977) 73
- CALDWELL, K. M., GALLAGHER, P. K., JOHNSON, D. W. (Dept. Cer. Eng., Mass. Inst. Tech., Cambridge, Mass., USA): Effect of thermal transport mechanisms on the thermal decomposition of CaCO₃. *Thermochim. Acta* 18 (1977) 15
- CALLIS, J. B. (Univ. Washington, Sch. Med., Dept. Pathol., Seattle, Wash., 98195 USA): The calorimetric detection of excited states. *J. Res. Nat. Bur. Stand. A* 80 (1976) 413
- CAMIA, F. (CNRS, Str. Microcalorimetrie et Thermochim., F-13000 Marseille, France): Heat conduction and convection. Sinusoidal thermic perturbation against a wall. *Compt. Rend. Ser. B* 283 (1976) (In French)
- CHEN, C. J., BACK, M. H., BACK, R. A. (Univ. Ottawa, Dept. Chem., Ottawa K1N 6N5 Ontario, Canada): The thermal decomposition of methane. II. Secondary reactions, autocatalysis and carbon formation; non-Arrhenius behaviour in the reaction of CH₄ with ethane. *Can. J. Chem.* 54 (1976) 3175
- CHERNORUKOV, N. G., KORSHUNOV, I. A., SIFRINA, G. F., MOSKVICHEV, E. P. (N. I. Lobachevskii State Univ., Gorki, USSR) Thermal decomposition products of disubstituted germanium arsenate monohydrate. *Zh. Neorg. Khim.* 21 (1976) 2352 (In Russian)
- CHERNORUKOV, N. G., SIBRINA, G. F., MOSKVICHEV, E. P. (Lensovet Technol. Inst., Leningrad, USSR): Thermal decomposition products of disubstituted tin arsenate of monohydrate. *Zh. Neorg. Khim.* 21 (1976) 2854 (In Russian)
- CLARK, R. P. (Sandia Lab. Albuquerque, N. M., 87115 USA): Phase diagram for the ternary system LiCl—CaCl₂—CaCrO₄. *Thermochim. Acta* 18 (1977) 21
- CLAYTON, P. R., WORSWICK, R. D., STAVELY, L. A. K. (Univ. Oxford, Inorg. Chem. Lab., Oxford, OX1 3QR England): The heat capacity of 1,2,4,5-tetracyano-benzene and of its 1:1 charge-transfer complex with pyrene from 10 K to 100 K. *Mol. Cryst. Liquid Cryst.* 36 (1976) 153
- COMSA, G. H., HEITKAMP, D., RÄDE, H. S. (KFA Jülich GmbH, Inst., Chem., D-5170 Jülich 1, GFR): Specific heat of ultrafine vanadium particles in the temperature range 1.3—10 K. *Solid State Commun.* 20 (1976) 877
- COOKE, A. H., DAVIDSON, M. M., ENGLAND, N. J., LEASK, M. J. M., LOWRY, J. B., TROPPEL, A. C., WELLS, M. R. (Univ. Oxford, Clarendon Lab., Oxford, England): The magnetic, spectroscopic and thermal properties of KDyMo₂O₈. *J. Phys. C* 9 (1976) L 573
- COUCHMAN, P. R., REYNOLDS, C. L., COTTE-RILL, R. M. J. (Univ. Massachusetts, Polymer Sci. and Engn. Mat. Res. Lab., Amherst, Mass., 01002 USA): Low temperature specific heat of glasses and amorphous solids. *Nature* 264 (1976) 534
- COX, R. J., GASKILL, R. C., JOHNSON, J. F. (Univ. Conn., Inst. Mater. Sci., Storrs, Conn. 06268 USA): Thermal properties of 4-alkyl-4'-cyanotolanes: a new series of liquid crystals. *Thermochim. Acta* 18 (1977) 37
- CROSNIER, J. J., MICHÉRON, F., DREYFUS, G., LEWNER, J. (Thomson CSF, Cent. Lab., F-91401 Orsay, France): Pyroelectricity induced by space-charge injection in polymer electrets. *J. Appl. Phys.* 47 (1976) 4798
- CUCINOTTA, V., GURRIERI, S., MUSUMECI, S., SAMMARTANO, S. (Univ. Catania, Ist. Chim. Gen., I-95125 Catania, Italy): Thermal analysis of lanthanide perchlorates. *Thermochim. Acta* 17 (1976) 375
- D'ASCENZO, G., CARDARELLI, E., MAGRI, A. D., BICA, T. (Univ. Studi Roma, Ist. Chim. Anal., I-00185 Rome, Italy): Coordination compounds of biological interest. Thermal properties of glycinate and glutamate chromium(III) complexes. *Thermochim. Acta* 17 (1976) 329
- DAVIDENKO, N. K., SHEVCHENKO, Y. N., VYSOTSKAYA, G. A. (L. V. Pissarzhevskii Phys. Chem. Inst., Kiev, UkSSR): The preparation and thermal decomposition of pentakis-(alkylamino) and hexakis-alkyl-

- amino chromium(III) halides. *Zh. Neorg. Khim.* 21 (1976) 3003 (In Russian)
- DEBRAY, D., WORTMANN, B. F., METHFESSEL, S. (CENS, Serv., Phys. Solide et Reson. Magnétique, F-91190 Gif-sur-Yvette, France): Anomalous magnetic susceptibility behavior of some Yb compounds: thermally excited interconfiguration crossover. *Phys. Rev. B* 14 (1976) 4009
- DEININGER, P. L., SCHMID, C. W. (Univ. Calif. Davis, Dept. Chem., Davis, Calif., 95616 USA): Thermal stability of human DNA and chimpanzee DNA heteroduplexes. *Science* 194 (1976) 846
- DELICHATSIOS, M. A. (Factory Mutual Res. Corp., Norwood, Mass., 02062 USA): Fire growth rates in wood cribs. *Combust. Flame* 27 (1976) 267
- DEM'YANETS, L. N., LOBACHEV, A. N., USOV, L. V. (Acad. Sci. USSR, Crystallog. Inst., Moscow, USSR): Solubility of $YFeO_3$ in aqueous KOH under hydrothermal conditions. *Inorg. Mater. transl. Izv. Akad. Nauk SSSR Neorg. Mater.* 12 (1976) 430
- DESYATNIK, V. N., KATYSHEV, S. F., RASPOPIN, S. P., CHERVINSKII, Y. F. (S. M. Kirov Polytech. Inst., Sverdlovsk, USSR): Density, surface tension and viscosity of melts of uranium trichloride — potassium chloride system. *Zh. Fiz. Khim.* 50 (1976) 2522 (In Russian)
- DILLI, S., PATSALIDES, E. (Univ. New S. Wales, Sch. Chem., Kensington, 2033 New S. Wales, Australia): Volatility studies of metal chelates. I. Thermal studies of vanadium β -diketonates. *Aust. J. Chem.* 29 (1976) 2369
- DRUMMOND, J. P., JONES, R. A., ASH, R. L. (NASA, Langley Res. Ctr., Div. High Speed Aerodynam., Hypersonic Prop. Branch, Hampton, Va., 23365 USA): Effective thermal property improves phase change paint data. *AIAA J.* 14 (1976) 1476
- DUER, W. C., LEUNG, W. H., OGLESBY, G. B., MILLERO, F. J. (Univ. Miami, Rosenstiel Sch. Marine and Atmosph. Sci., Miami, Fla., 33149 USA): Seawater. A rest of multicomponent electrolyte solution theories. II. Enthalpy of mixing and dilution of the major sea salts. *J. Solut. Chem.* 5 (1976) 509
- DUISMANN, W., HERTEL, R., MEISTER, J., RÜCHARDT, C. (c/o C. Röchardt, Univ. Freiburg, Chem. Lab., Albertstr. 21, D-7800 Freiburg, GFR): Aliphatische Azoverbindungen. VI. Sterische Beschleunigung der Azoalkanthermolyse. *Justus Liebig's Ann. Chem.* (1976) 1820
- DU PREEZ, J. G. H., VAN VUUREN, C. P. J., MCGILL, W. J. (Univ. Port Elizabeth, Uranium Chem. Res. Unit., Port Elizabeth, South Africa): The chemistry of uranium. XIV. The thermal stability of some actinoid nitrates. *J. Coord. Chem.* 5 (1976) 231
- ELISEEV, A. A., KUZMICHEVA, G. M., LE, V. K. (M. V. Lomonosov Fine Chem. Technol. Inst., Moscow, USSR): Thermal expansion of ytterbium sulfides. *Zh. Neorg. Khim.* 21 (1976) 2821 (In Russian)
- EMEL'CHENKO, G. A. (Acad. Sci. USSR, Crystallog. Inst., Moscow, USSR): Hydrothermal crystallization in the systems $Ho_2O_3(Yb_2O_3)-GeO_2-NaOH-H_2O$. *Inorg. Mater. transl. Izv. Akad. Nauk SSSR Neorg. Mater.* 12 (1976) 427
- EMYASHEV, A. V., LISOVSKAYA, L. V., LEBEDEV, YU. N., SHMAKOVA, E. S.: Change in structure and properties of Si-containing pyrographite. *Inorg. Mater. transl. Izv. Akad. Nauk SSSR Neorg. Mater.* 12 (1976) 353
- EPSTEIN, E. F., BERNAL, I., BRENNAN, W. P. (Colorado State Univ., Dept. Chem., Ft. Collins, Colo., 80521 USA): An ESR and differential scanning calorimetric study of $Co(NH_3)_6(Cd : Cu)Cl_3$. *Inorg. Chim. Acta* 20 (1976) L47
- ESIN, Y. O., GELD, P. V., GORBUNOV, Y. V., VASILEV, V. I., GALEZNIK, A. B. (S. M. Kirov Polytech. Inst., Sverdlovsk, USSR): Enthalpy of formation of liquid alloys of chromium with silicon. *Zh. Fiz. Khim.* 50 (1976) 2656 (In Russian)
- EVANS, P. J., TSCHUIKOW-ROUX, E. (Univ. Calgary, Dept. Chem., Calgary T2N 1N4 Alberta, Canada): Thermal decomposition of nitrogen trifluoride in shock waves. *J. Chem. Phys.* 65 (1976) 4202
- FOMENKO, L. S., LUBENETS, S. V., STARTSEV, V. I., NIKIFORENKO, V. N. (Acad. Sci. UkSSR, Low Temp. Engr. Phys. Inst., Kharkov, UkSSR): Plastic deformation

- of indium single crystals in temperature range 4.2–300 K. *Fiz. Metal. Metalloved.* 42 (1976) 160 (In Russian)
- FURUKAWA, G. T., RIDDLE, J. L., BIGGE, W. R. (NBS, Inst. Basic Stand., Washington, D. C., 20234 USA): The international practical temperature scale of 1968 in the region 90.188 K to 903.89 K as maintained at the national bureau of standards. *J. Res. Nat. Bur. Stand. A* 80 (1976) 477
- GILCHRIST, K. E. (UKAEA, Reactor Fuel Element Labs., Preston, Lancashire, England): Thermal property measurements on zircaloy-2 and associated oxide layers up to 1200 °C. *J. Nucl. Mater.* 62 (1976) 257
- GILL, S. J., SEIBOLD, M. L. (Univ. Colorado, Dept. Chem., Boulder, Colo., 80302 USA): Flow calorimeter cell for measuring heats of solutions of solids. *Rev. Sci. Instr.* 47 (1976) 1399
- GLAZACHEV, V. S., BAKUNOV, V. S., POLUBOYARINOV, D. N., RABINOVICH, S. M. (D. I. Mendeleev Chem. Technol. Inst., Moscow, USSR): Temperature dependence of the electrical conductivity of certain carbographite materials. *Inorg. Mater. transl. Izv. Akad. Nauk SSSR Neorg. Mater.* 12 (1976) 472
- GLICK, R. L. (Thiokol Corp., Adv. Design and Anal. Sect., Hunstville, Al., USA): Distribution functions for statistical analysis of monodisperse composite solid propellant combustion. *AIAA J.* 14 (1976) 1631
- GOLD, V. (Univ. London, Kings Coll., Dept. Chem., London, WC2R 2LS England): Enthalpies of transfer involving ionic transition states: the redundancy of extra-thermodynamic assumptions. *J. Chem. Soc. Perkin Trans. II* (1976) 1531
- GORBOVSKAYA, G. P., VITING, L. M. (M. V. Lomonosov State Univ., Moscow, USSR): Use of cryoscopic data to calculate the heats of melting and activities of certain salts. *Inorg. Mater. transl. Izv. Akad. Nauk SSSR Neorg. Mater.* 12 (1976) 375
- GORDON, J. E., HALL, R. O. A., LEE, J. A., MORTIMER, M. J. (Amherst Coll., Amherst, Mass., 01002 USA): Heat capacities of plutonium and neptunium. *Proc. Roy. Soc. London A* 351 (1976) 179
- GREENHOW, E. J., SPENCER, L. E. (Univ. London, Chelsea Coll. Sci. and Technol., Dept. Chem., London SW3 6LX England): Ionic polymerization as a means of endpoint indication in non-aqueous thermometric titrimetry. IX. Determination of dithiocarbamates and phosphorodithioates. *Analyst* 101 (1976) 777
- GRINBERG, YA. KH., BORYAKOVA, V. A., SHEVEL'KOV, V. F. (N. S. Kurnakov, Gen. and Inorg. Chem. Inst., Moscow, USSR): Thermodynamic properties of indium iodides. *Inorg. Mater. transl. Izv. Akad. Nauk SSSR Neorg. Mater.* 12 (1976) 348
- GRINSHTEIN, P. M., FISTUL', V. I. (Moscow Rare Met. Ind. Res. and Design. Inst., Moscow, USSR): Deviation from stoichiometry in GaAs during heat treatment. *Inorg. Mater. transl. Izv. Akad. Nauk SSSR Neorg. Mater.* 12 (1976) 91
- GRØNVOLD, F., WESTRUM, E. F. (Univ. Oslo, Dept. Chem., Blindern, Oslo, Norway): Heat capacities of iron disulphides. Thermodynamics of marcasite from 5 to 700 K, pyrite from 300 to 780 K, and the transformation of marcasite to pyrite. *J. Chem. Thermodyn.* 8 (1976) 1039
- GUOXI, CH.: Differential thermal and thermogravimetric analyses of sulfide and sulfosalt minerals from a certain ore field. *Geochimica* (1976) 201 (In Chinese)
- GYÖRE, J., PAIS K. (Belügyminiszt., H-1903 Budapest, Hungary): Thermal transformation of amino acids, polypeptides and protein. I. *Magy. Kém. Foly.* 82 (1976) 478 (In Hungarian)
- HABERFELD, J. L., JOHNSON, J. F., BARRALL, II. E. M., GASKILL, R. C. (Uniroyal Oxford Res. Cent. RG-20, Middlebury, Conn., 06749 USA): Detection of thermal stress in insulators by thermomechanical analysis. *Thermochim. Acta* 18 (1977) 95
- HANLEY, H. J. M. (Natl. Bur. Stand., Div. Cryogenics, Boulder, Colo., 80302 USA): Prediction of the viscosity and thermal conductivity coefficients of mixtures. *Cryogenics* 16 (1976) 643
- HARRIS, J. (Picatinny Arsenal, Dover, N. J.

- USA): Thermal characteristics of desensitizing waxes for explosive compositions. *Thermochim. Acta* 18 (1977) 125
- HAY, J. N., FITZGERALD, P. A., WILES, M. (Univ. Birmingham, Dept. Chem., Birmingham, B15 2TT England): Use of differential scanning calorimetry to study polymer crystallization kinetics. *Polymer* 17 (1976) 1015
- HINE, J., ARATA, K. (Ohio State Univ., Evans Lab. Chem., Columbus, Ohio, 43210 USA): Keto-enol tautomerism. I. The calorimetric determination of the equilibrium constants for keto-enol tautomerism for cyclopentanone. *Bull. Chem. Soc. Jap.* 49 (1976) 3085
- HINE, J., ARATA, K. (Ohio State Univ., Evans Lab. Chem., Columbus, Ohio, 43210 USA): Keto-enol tautomerism. II. The calorimetric determination of the equilibrium constants for keto-enol tautomerism for cyclohexanone and acetone. *Bull. Chem. Soc. Jap.* 49 (1976) 3089
- HIPÓLITO, O., LOBO, R. (Univ. Sao Paulo, Inst. Fis. Quim. Sao Carlos, Dept. Fis. Ciencia Mat., 13560 Sao Carlos, S.P. Brasil): Energy spectrum and specific heat of a two-dimensional interacting Bose gas. *Phys. Rev. B* 14 (1976) 3892
- HOARE, J. P., PALUCH, R. F., MEIBUHR, S. G. (G. M. Corp., Res. Labs., Dept. Electrochem., Warren, Mich., 48090 USA): On the differential thermal analysis of the platinum-oxygen system. *J. Electrochem. Soc.* 123 (1976) 1821
- HOLSAPPLE, K. A. (Univ. Washington, Seattle, Wash., 98195 USA): On the melt line slope of alloys. *J. Phys. Chem. Solids* 38 (1977) 55
- HOPF, F. R., WHITTEN, D. G. (c/o D. G. Whitten, Univ. N. Carolina, Dept. Chem., Chapel Hill, N. C., 27514 USA): Photochemical reactions in organized monolayer assemblies. 5. Photochemical and thermal reactions of reactive intermediates formed by ligand photoejection in ruthenium porphyrins. *J. Amer. Chem. Soc.* 98 7422
- HOSHINO, Y., UTSUNOMIYA, T., FUKUI, I. (Tokyo Inst. Technol., Res. Lab. Engr. Mat. Meguro-ku, Tokyo 152, Japan): Heating behavior of some transition metal nitrates and solubilities of their thermal decomposition products in molten sodium nitrate. *J. Chem. Soc. Jap. Chem. Industr. Chem.* (1976) 1672 (In Japanese)
- HUBIN, R., GABELICA, Z. (Fac. Univ. N. D. de la Paix, Lab. Catal., 61, Rue de Bruxelles, B-5000 Namur, Belgium): EPR study of the radicals formed during the vacuum thermal decomposition of $(\text{NH}_4)_2\text{Mg}(\text{S}_2\text{O}_3)_2 \cdot 6\text{H}_2\text{O}$. *Inorg. Chim. Acta* 19 (1976) L 61
- HUGGINS, M. L. (135 Northridge Lane, Woodside, Calif., 94062 USA): Thermodynamic properties of liquids, including solutions. 13. Molecular and intermolecular properties from excess enthalpies. *J. Phys. Chem.* 80 (1976) 2737
- IKARIYA, T., YAMAMOTO, A. (Tokyo Inst. Technol., Res. Lab. Resources Utilization, Meguro-ku, Tokyo 152, Japan): Mechanisms of thermal decomposition of dialkylcobalt(III) complexes. *J. Organometal. Chem.* 120 (1976) 257
- INOUE, J., SHIMIZU, M. (Nagoya Univ., Fac. Engr., Dept. Appl. Phys., Nagoya, 464 Japan): Temperature dependences of electrical resistivity and magnetic susceptibility for V-Cr, Nb-Mo and Ta-W alloys at high temperature. *J. Phys. Soc. Jap.* 41 (1976) 1211
- IRVING, R. J., LOCKYER, T. N. (Univ. Surrey, Dept. Chem., Guildford, GU2 5XH, Surrey, England): Thermochemical study of the nickel-sulphur bond energy in bis(5-mercapto-2,2,6,6-tetramethylhept-4-en-3-onato-S)-nickel(II). *J. Chem. Soc. Dalton Trans.* (1976) 2140
- ISAACS, N. S., LAILA, A. A. R. (Univ. Reading, Dept. Chem., Reading RG6 2AD, Berkshire, England): Reaction of 1,3-dienes with sulphur dioxide. 1. Thermal decomposition of 2,5-dihydrothiophen 1,1-dioxides. *J. Chem. Soc. Perkin Trans. II.* (1976) 1470
- ISRAEL, R. B. (Univ. British Columbia, Dept. Math., Vancouver, 8 British Columbia, Canada): High-temperature analyticity in classical lattice systems. *Commun. Math. Phys.* 50 (1976) 245
- IVANCHENKO, V. A., PCHELYAKOV, O. P., STENIN, S. I. (Acad. Sci. USSR, Semicond. Phys. Inst., Novosibirsk, USSR): Investigation of the system Ge-GeS by means of thermogravimetry and electron microscopy. *Inorg. Mater. transl. Izv. Akad. Nauk SSSR Neorg. Mater.* 12 (1976) 7

- IZATT, R. M., TERRY, R. E., HAYMORE, B. L., HANSEN, L. D., DALLEY, N. K., AVONDET, A. G., CHRISTENSEN, J. J. (Brigham Young Univ., Dept. Chem., Provo, Utah, 84602 USA): Calorimetric titration study of the interaction of several uni- and bivalent cations with 15-crown-5, 18-crown-6, and two isomers of dicyclohexo-18 crown-6 in aqueous solution at 25 °C and $\mu = 0.1$. *J. Amer. Chem. Soc.* 98 (1976) 7620
- KANEMITSU, T., MIYAGAWA, K. (Osaka, Joshigakven Coll., Tennoju, Osaka, Japan) Calorimetric studies on the swelling of rice. II. Effect of storage time on heat of swelling. *Cereal Chem.* 53 (1976) 821
- KARIM, G. A., BADR, O. (Univ. Calgary, Dept. Mech. Engn., Calgary, T2N 1N4 Alberta, Canada): Use of fiber optics to determine flame propagation rates in long tubes and ducts. *Combust. Flame* 27 (1976) 279
- KERIMOV, I. G., ALIEV, N. G., GUSEINOV, D. A., SADYKHOV, R. Z., KURBANOV, M. M. (Acad. Sci. AzSSR, Phys. Inst., Baku, AzSSR): Magnetic, elastic and thermal properties of Fe₃Se₄. *Fiz. Tverd. Tela* 18 (1976) 3328 (In Russian)
- KIRSHENBAUM, A. D. (Ball. Combust. Res. Branch, Prop. Div., Feltman Res. Lab., Picatinny Arsenal, Dover, N. J., 07801 USA): Effect of different carbons on ignition-temperature and activation energy of black powder. *Thermochim. Acta* 18 (1977) 113
- KITO, A., NAKANE, M., MIYAKE, Y. (Govt. Ind. Res. Inst., Midorigaoka, Ikeda 563, Japan): Thermogravimetric and gas chromatographic behaviors of copper chelate of tropolone. *J. Chem. Soc. Jap. Chem. Industr. Chem.* (1976) 1721 (In Japanese)
- KLEIN, M. W. (Bar Ilan Univ., Dept. Phys., Ramat-Gan, Israel): Correction to the concentration dependence of the very low temperature specific heat of RKKY spin glasses. *Phys. Lett. A* 59 (1976) 52
- KLINGER, M. I. (A. F. Ioffe Engn. Phys. Inst., Leningrad, USSR): On specific features of thermomigration during quantum diffusion in crystals. *Dokl. Akad. Nauk SSSR* 230 (1976) 74 (In Russian)
- KLUMP, H. (Univ. Freiburg, Inst. Phys. Chem., D-7800 Freiburg, GFR): A calorimetric study of polyguanylic acid at neutral pH. *Biophys. Chem.* 5 (1976) 359
- KLUMP, H. (Univ. Freiburg, Inst. Phys. Chem., D-7800 Freiburg, GFR): Calorimetric studies of the interaction between DNA and poly-L-lysine. *Biophys. Chem.* 5 (1976) 363
- KOKHANOVSKII, V. V., PAVLYUCHENKO, M. M. (Acad. Sci. BeSSR, Gen. and Inorg. Chem. Inst., Minsk, BeSSR): The gas phase effect on the thermal decomposition kinetics of yttrium oxalate. *Dokl. Akad. Nauk BeSSR* 20 (1976) 1010 (In Russian)
- KOMINAR, R. J., KRECH, M. J., PRICE, S. J. W. (Wilfrid Laurier Univ., Dept. Chem. Waterloo N2L 3C5 Ontario, Canada): Pyrolysis of iodobenzene by the toluene carrier technique and determination of D[C₆H₅-I]. *Can. J. Chem.* 54 (1976) 2981
- KORDYUKEVICH, V. O., KOVTUN, L. V., RUDENKO, N. P.: Thermogravimetry of germanium 8-hydroxyquinolates. *Zh. Neorg. Khim.* 21 (1976) 2849 (In Russian)
- KORSHUNOV, V. A. (S. M. Kirov Polytech. Inst., Sverdlovsk, USSR): Heat capacity and electron-phonon interaction constants of lead aluminium platinum. *Fiz. Metal. Metalloved.* 42 (1976) 240 (In Russian)
- KORZHUEV, M. A. (A. A. Baikov Met. Inst., Moscow, USSR): Thermomagnetic quality factor of alloys Bi-Sb. *Inorg. Mater. transl. Izv. Akad. Nauk SSSR Neorg. Mater.* 12 (1976) 24
- KOVTUNENKO, P. V., NESTEROVA, I. L., GUSEINOV, M. B., SHILO, I. P. (D. I. Mendeleev Chem. Technol. Inst., Moscow, USSR): Stoichiometric deviations induced in lead monoxide when heated in vacuum. *Inorg. Mater. transl. Izv. Akad. Nauk SSSR Neorg. Mater.* 12 (1976) 118
- KRESTOVNIKOV, A. N., GORBACHEV, V. V., OKHOTIN, A. S., GUTSEV, A. F., KOROBKOV, A. N. (c/o V. V. Gorbachev, Moscow Steel and Alloy Inst., Moscow, USSR): Thermal conductivity of copper sulfotelluride. *Inorg. Mater. transl. Izv. Akad. Nauk SSSR Neorg. Mater.* 12 (1976) 293
- KRIVTSOV, N. V., SHIROKOVA, G. N., ZHUK, S. Y., ROSOLOVSKII, V. Y. (Acad. Sci. USSR, New Chem. Technol. Inst., Chernogolovka, USSR): Enthalpy of formation of potassium nitratoaluminates. *Zh. Neorg. Khim.* 21 (1976) 2561 (In Russian)

- KRIVTSOVA, N. V., SHIROKOVA, G. N., ZHUK, S. Y., ROSOLOVSKII, V. Y. (N. S. Kurnakov Gen. and Inorg. Chem. Inst., Moscow USSR): Thermochemistry of complex aluminium nitrate. *Zh. Neorg. Khim.* 21 (1976) 3155 (In Russian)
- KRYLOV, E. I., KAKURIN, Y. N., KASIMOV, G. G. (S. M. Kirov Polytech. Inst., Sverdlovsk, USSR): Estimation of relative activation energies and heats of reaction during formation of nickel hydrazinoxalates. *Zh. Neorg. Khim.* 21 (1976) 2405 (In Russian)
- KUKUSHKIN, Y. N., BAKHIREVA, S. I. (Leningrad Technol. Inst., Leningrad, USSR): Thermal-conversions of platinum(II) and palladium(II) complexes. *Zh. Neorg. Khim.* 21 (1976) 2721 (In Russian)
- KUNEN, S. M., BURKE, M. F., BANDURSKII, E. L., NAGY, B. (Univ. Utah, Inst. Res. Environm. Studies Lab., Salt Lake City, Utah, 84108 USA): Preliminary investigations of the pyrolysis products of insoluble polymer-like components of atmospheric particulates. *Atmos. Environ.* 10 (1976) 913
- KURDYUMOV, G. M., AGAPOVA, O. I., IVANOV, O. V., DZIOMKO, V. M. (M. V. Lomonosov Fine Chem. Technol. Inst., Moscow, USSR): Thermal stability of coordination compounds of cobalt(II), nickel(II) and Cu(II) halides with pyrazole derivatives. *Zh. Neorg. Khim.* 21 (1976) 2738 (In Russian)
- KUROKI, T., SAWAGUCHI, T., IKEBAYASHI, N., IKEMURA, T., SAKIKAWA, N. (Nihon Univ., Fac. Sci. and Engr., Dept. Ind. Chem., Chiyoda-ku, Tokyo 101, Japan): Pyrolysis of polystyrene-prediction of product yield. *J. Chem. Soc. Jap. Chem. Industr. Chem.* (1976) 1766 (In Japanese)
- KUTS, P. S., KOVALENKO, V. F., RUBAN, V. A. (T. G. Shevchenko State Univ., Kiev, UkSSR): Influence of thermomagnetic treatment and light irradiation on magnetic properties of $Y_3Fe_{5-x}Si_xO_{12}$ crystals. *Izv. Vyssh. Uch. Zav. Fiz.* (1976) 138 (In Russian)
- KUWAMOTO, H., DICKERSON, D. L., KEER, H. V., HONIG, J. M. (Purdue Univ., Dept. Chem., W. Lafayette, Ind., 47097 USA): Heat capacity of Al-doped V_2O_5 alloys. *Mater. Res. Bull.* 11 (1976) 1301
- KUZNETSOV, G. M., LEONOV, M. P., KUZNETSOVA, S. K., KOVALEV, V. I. (Moscow Steel and Alloy Inst., Moscow, USSR): Determination of melting point of compounds and simple substances. *Zh. Fiz. Khim.* 59 (1976) 2517 (In Russian)
- LAHAYE, J., PRADO, G. (Ctr. Rech. Physicochim. Surfaces Solides, F-68200 Mulhouse, France): Décomposition thermique du méthane. Formation de noir de carbone. *Compt. Rend. Ser. C* 283 (1976) 425
- LANZA, F., RICOLFI, T., BASSANI, C., GEIGER, F. (Ist. Metrol. G. Colonnetti, Torino, Italy): A heat pipe device for thermometric purposes between 600 °C and 1100 °C. *J. Phys. E* 9 (1976) 876
- LAPTEV, D. M., GORYUSHKIN, V. F., KULAGIN, N. M., VORONTSOV, E. S. (Siberian Met. Inst., Stalinsk, USSR): Thermography of samarium dichloride. *Zh. Neorg. Khim.* 21 (1976) 2616 (In Russian)
- LASHINA, L. V., LESKOVSKAYA, N. P.: Spectroscopic investigation of chlorine-containing fibers subjected to thermal degradation. *J. Appl. Chem. USSR transl. Zh. Prikl. Khim.* 49 (1976) 677
- LATHAM, R. V. (Univ. Aston, Dept. Phys., Birmingham B4 7ET, Warwickshire, England): A theoretical interpretation of the pyroelectric response from a scanning micro heat probe. *J. Phys. D* 9 (1976) 2295
- LAVRENKO, V. A., PROTSENKO, T. G., PANASIUK, O. A., LYSENKO, FRANTSEVICH, I. N. (Acad. Sci. UkSSR, Mat. Technol. Inst., Kiev, UkSSR): High-temperature oxidation of iron-silicon materials. *Dokl. Akad. Nauk SSSR* 229 (1976) 1180 (In Russian)
- LIMAR', T. F., CHEREDNICHENKO, I. F., KISEL', N. G.: Composition of coprecipitated compounds of Sr and Ti and their behavior when heated. *Inorg. Mater. transl. Izv. Akad. Nauk SSSR Neorg. Mater.* 12 (1976) 587
- LLERAS, J., BERNARD, M., COMBET, S. (Univ. Provence, Chim. Ionique et Macromolec. Lab., F-13331 Marseille 3, France): Analyse des gaz de décomposition pré-pyrolytique de l'acide polyméthacrylique. *Compt. Rend. Ser. C* 283 (1976) 405
- LOU, L. F. (G. E., Dept. Semicond. Prod., Syracuse, N. Y., 13201 USA): Low-temperature specific heat and thermal

- conductivity of superconducting V_3Si
Phys. Rev. B 14 (1976) 3914
- LUCAS, M., LE BAIL, H. (CENS, Serv. Chim. Phys., F-91190 Gif-sur-Yvette, France): Volume, heat capacity and spectroscopic studies of solutions of the salts of adamantanecarboxylic acid and tert-butylcarboxylic acid in H_2O and D_2O . *J. Phys. Chem.* 80 (1976) 2620
- LUM, R. M., (Bell Lab., Murray Hill, N. J., 07974 USA): Direct analysis of polymer pyrolysis using laser microprobe techniques. *Thermochim. Acta* 18 (1977) 73
- MA, S. K. S., DE WETTE, F. W., ALLDREDGE, G. P. (Univ. Texas, Dept. Phys., Austin, Tex., 78712 USA): Anharmonicity in the surface and size effects in the specific heat of linear chains. *Phys. Status Solidi B* 78 (1976) 219
- MAEKAWA, H., TOMURA, K. (Mitsubishi Elect. Corp., Cent. Res. Lab., Amagasaki, Hyogo, Japan): Thermo-crystallization of amorphous Se films. *Jap. J. Appl. Phys.* 15 (1976) 2229
- MAGRI, A. D., D'ASCENZO, G., BIADER CEIPIDOR, V., MARINO, A. (Univ. Rome, Inst. Chim. Anal., 1-00100 Rome, Italy): Analyse thermique des composés du cobalt-(III) tétrammine avec des acides organiques dicarboxyliques. *Rev. Roum. Chim.* 21 (1976) 1265
- MALKIN, Y. N., KUZ'MIN, V. A., DYADYUSHA, G. G., BAGUSLAVSKAYA, A. N., MIKHAILENKO, F. A. (Acad. Sci. USSR, Chem. Phys. Inst., Moscow, USSR): The thermochromic and photochemical properties of bis-spiropyranes. *Bull. Acad. Sci. USSR Div. Chem. Sci.* transl. *Izv. Akad. Nauk SSSR Ser. Khim.* 25 (1976) 536
- MAOFU, L.: Differential thermal analysis of organic matters and its application in petroleum geology. *Geochimica* (1976) 187 (In Chinese)
- MARINOV, P. (Bulgarian Acad. Sci., Inst. Math. and Mech., 1113 Sofia, Bulgaria) Thermomechanical behavior of viscoelastic cosserat continuum. *Acta Mech.* 25 (1976) 63
- MARK, J. E. (Univ. Michigan, Dept. Chem., Ann Arbor, Mich., 48104 USA): Thermoelastic results on rubberlike networks and their bearing on the foundation of elasticity theory. *Macromol. Rev. D* 11 (1976) 135
- MÁZOR, L. (Tech. Univ. Budapest, Inst. Gen. and Anal. Chem., H-1111 Budapest, Hungary): Application of the hydro-pyrolysis process for the determination of the halogen content in organic compounds. *Acta Chim. Acad. Sci. Hung.* 89 (1976) 289 (In German)
- MCADIE, H. G. (Dep. Environmental Chem., Ontario Res. Foundation, Sheridan Park, Mississauga, Ontario, L5K 1B3 Canada): Environmental applications for thermal analysis. *Thermochim. Acta* 18 (1977) 3
- MC CALLUM, R. W., JOHNSTON, D. C., MAPLE, M. B., MATTHIAS, B. T.: Specific heat of a new metastable phase of scandium-chromium. *Mater. Res. Bull.* 11 (1976) 1354
- MELCHIOR, D. L., SCAVITTO, F. J., WALSH, M. T., STEIM, J. M. (Brown Univ., Dept. Chem., Providence, R. I., 02912 USA): Thermal techniques in biomembrane and lipoprotein research. *Thermochim. Acta* 18 (1977) 43
- MELNIKOVA, N. A., PETRENKO, P. V., REPETSKIY, S. P., SHEVCHENKO, V. A. (T. G. Shevchenko State Univ., Kiev, UKSSR): Study of temperature dependence of residual electrical resistance in nickel-chromium alloys by model pseudopotential method. *Fiz. Metal. Metalloved.* 42 (1976) 205 (In Russian)
- MIL'KOV, G. A., LAINER, Y. A., CHIZHIKOV, D. M.: Thermograms of interactions in the system $(Na, K, Al)_n \cdot (SO_4)_m - H_2O$. *J. Appl. Chem. USSR* transl. *Zh. Prikl. Khim.* 49 (1976) 670
- MIRWALD, P. W. (Ruhr-Univ., Inst. Mineral., Postfach 2148, D-4630 Bochum, GFR): A differential thermal analysis study of the high-temperature polymorphism of calcite at high pressure. *Contr. Mineral. Petrol.* 59 (1976) 33
- MOHAN, V. K., VERNEKER, V. R. P. (Indian Inst. Sci., Dept. Inorg. and Phys. Chem., Bangalore, 560012 India): Incomplete decomposition of alkali metal azides. *Thermochim. Acta* 17 (1976) 343
- MOLODKIN, A. K., ODINETS, Z. K., VARGAS PONSE, O., ZAITSEV, B. E. (P. Lumumba Univ., Moscow, USSR): Thermal decomposition of hexahydrates of lanthanum, cerium, praseodymium and neodymium

- nitrate. *Zh. Neorg. Khim.* 21 (1976) 2336 (In Russian)
- MORSS, L. R. (Rutgers State Univ., Sch. Chem., New Brunswick, N. J., 08903 USA): Thermochemical properties of yttrium, lanthanum, and the lanthanide elements and ions. *Chem. Rev.* 76 (1976) 827
- MUSAEV, P. K., PAVLOV, S. T., ESHPULATOV, B. E. (A. F. Joffe Engn. Phys. Inst., Leningrad, USSR): Diffusion on Fermi surface and thermoconductivity of electrons in metal. *Fiz. Tverd. Tela* 18 (1976) 3175 (In Russian)
- NAGASE, K., YOKOBAYASHI, H., IWASE, A., SONE, K. (Tohoku Univ., Coll. Gen. Educ., Sendai 980, Japan): Thermal analytical study on coordination in tetramethylene sulfoxide and dimethyl sulfoxide complexes of tervalent lanthanoid perchlorates. *Thermochim. Acta* 17 (1976) 335
- NARUCHI, K., YAMAMOTO, O., MIURA, M., NAGAKUBO, K. (Chiba Univ., Chiba 280, Japan): Thermal dimerization of calcium methacrylate. *J. Chem. Soc. Jap. Chem. Industr. Chem.* (1976) 1794 (In Japanese)
- NAUMOV, V. B. (U. I. Vernadskii Geochem. and Anal. Chem., Inst., Moscow, USSR): Results of thermometric measurements of inclusions in standard quartz samples carried out in laboratories of the USSR. *Geokhimiya* (1976) 1109 (In Russian)
- NICHOLS, N., SKÖLD, R., SPINK, C., SUURKUSK, J., Wadsö, I. (Perstorp AB, S-28400 Perstorp, Sweden): Additivity relations for the heat capacities of non-electrolytes in aqueous solution. *J. Chem. Thermodyn.* 8 (1976) 1081
- OLSCHWANG, D., BOURELLY, P., REY, J. (Univ. Provence, UER Chem., F-13003 Marseille, France): Acidity of ortho and trithioorthoformates. Enthalpies of mixing of orthoesters and trithio derivatives with Lewis bases. *Z. Chem.* 16 (1976) 445
- ONUMA, Y., OGASAWARA, M. (Osaka Univ., Dept. Mech. Engn., Suita, Osaka 565, Japan): Measurements of droplet size and gas temperature in spray combustion flames. *AIChE J.* 14 (1976) 1637
- OPPELT, A., MERKEL, A., BUSCHOV, K. H. J. (TH Darmstadt, Inst. Festkörperphys. 2, D-6100 Darmstadt, GFR): Temperature dependence of the Y hyperfine fields in YFe_3 . *Phys. Status Solidi A* 37 (1976) K 205
- OSBORNE, D. W., FLOW, H. E. (Argonne Nat. Lab., Chem. Div. III, 60439 USA): Half-life of ^{242}Pu from precise low-temperature heat capacity measurements. *Phys. Rev. C* 14 (1976) 1174
- OSTROVSKY, B. I., TARASKIN, S. A., STRUCHKOV, B. A., SOMIN, A. S. (All Union Opt. Phys. Measurement Res. Inst., Moscow, USSR): Temperature dependence of specific heat of MbBa on transition from an isotropic to nematic phase. *Zh. Eksp. Teor. Fiz.* 71 (1976) 692 (In Russian)
- OTA, R., KUNUGI, M. (Kyoto Univ., Dept. Ind. Chem., Kyoto 606, Japan): Temperature and pressure dependence of the elastic property of GeS_2 glass. *J. Phys. Chem. Solids* 38 (1977) 9
- PAETZOLD, R., APPENROTH, K., REICHENBÄCHER, M. (Friedrich Schiller Univ., Sect. Chem., DDR-69 Jena, GDR): Thermochromie und Photochromie aryl-substituierter Azine; Benzophenoanthradiazin. *Z. Chem.* 16 (1976) 446
- PALGUYEV, Y. V., KURANOV, A. A., SYUTKIN, P. N., SIDORENKO, F. A. (S. M. Kirov Polytech. Inst. Sverdlovsk, USSR): Anomalous temperature dependence of electrical resistance of palladium-iron alloys. *Fiz. Metal. Metalloved.* 42 (1976) 57 (In Russian)
- PELL, E., PUXBAUM, H., GÁL, S. (Tech. Univ. Wien, Inst. Anal. Chem. und Mikrochem., A-1060 Wien, Österreich): Thermoanalytical investigations of dusts using detection of physical and chemical parameters. *Fresenius Z. Anal. Chem.* 282 (1976) 115 (In German)
- PERONNE, R., HOURIEZ, J., CRISTOL, B., BALESDENT, D. (Ecole Natl. Super. Ind. Chim., Inst. Natl. Polytech. Lorraine, Thermodynam. Chim. et Appl. Lab., F-54042 Nancy, France): Calorimétrie de réaction entre solides, application à la détermination des enthalpies partielles de mélange du cuivre dans le sulfure cuivreux non stœchiométrique. *Compt. Rend. Ser. C* 283 (1976) 381

- PERVOV, V. S., GUSAROV, A. V. (Acad. Sci. USSR, High Temp. Inst., Moscow, USSR): Enthalpy of formation of tungsten tetrafluoride. *Inorg. Mater.* transl. *Izv. Akad. Nauk SSSR Neorg. Mater.* 12 (1976) 116
- PETROSYAN, V. P., ENNAN, A. A., KATS, B. M. (I. I. Mechnikov State Univ., Odessa, UkSSR): Thermogravimetry of silicon tetrafluoride adducts with pyridine and its derivatives. *Zh. Neorg. Khim.* 21 (1976) 2363 (In Russian)
- PHILLIPSON, A., FINLAY, G. R. (Brock Univ., Dept. Chem., St. Catharines, L2S 3A1 Ontario, Canada): Heats of formation of some hydrates. *Can. J. Chem.* 54 (1976) 3163
- PIKUS, G. Y., TALNOVA, G. N. (T. G. Sevchenko State Univ., Kiev., UkSSR): Concentration of free electrons and kinetics of thermal decomposition of CdS crystals in vacuum. *Fiz. Tverd. Tela* 18 (1976) 2934 (In Russian)
- PINNEL, M. R., MAHAJAN, S., BENNETT, J. E. (Bell Tel. Labs. Inc., Columbus, Ohio, 43213 USA): Influence of thermal treatments on the mechanical properties of an Fe-Co-V alloy (remendur). *Acta Met.* 24 (1976) 1095
- PIROGOV, YU. A., BELOVA, E. K., BRATSYKHINA, L. D., BABKINA, L. A.: Determination of first-order stresses due to thermal shock in granular MgO. *Inorg. Mater.* transl. *Izv. Akad. Nauk SSSR Neorg. Mater.* 12 (1976) 381
- PLETNEVA, E. D., VOLKOV, V. L., FOTIEV, A. A. (Sverdlovsk, Chem. Inst., Sverdlovsk, USSR): High-temperature heat capacity of $M_xV_{12}O_{30}$ type vanadium bronzes. *Zh. Fiz. Khim.* 50 (1976) 2683 (In Russian)
- PONIATOVSKII, E. G. BELASH, I. T. (Acad. Sci. USSR, Solid State Phys. Inst., Chernogolovka, USSR): Formation and decomposition of chromium hydride at temperatures up to 400 °C and hydrogen pressures up to 20 kbars. *Dokl. Akad. Nauk SSSR* 229 (1976) 1171 (In Russian)
- PRASAD, L. P., AHLUWALIA, J. C. (c/o J. C. Ahluwalia, Indian Inst. Technol., Dept. Chem., New Delhi, 110029 India): Heat-capacity changes and partial molal heat capacities of several amino acids in water. *J. Solut. Chem.* 5 (1976) 491
- PRINS, M., MAROM, G. (Hebrew Univ. Jerusalem, Casali Inst. Appl. Chem., Jerusalem, Israel): Bromostyrene-cross-linked polyesters. I. Thermal stability and flame retardancy. *J. Appl. Polym. Sci.* 20 (1976) 2971
- PUESCHEL, R. F. (NOAA, Dept. Commerce, Atmosph. Phys. and Chem. Lab., Boulder, Colo., 80302 USA): Aerosol formation during coal combustion: condensation of sulfates and chlorides on flyash. *Geophys. Res. Lett.* 3 (1976) 651
- RAZUMOVSKAYA, O. N., DEVLIKANOVA, R. U., BELYAEV, I. N., TOKMYANINA, T. B. (Rostov State Univ., Rostov, USSR): Thermogravimetric investigation of $Pb_2-NbMnO_6$ and Pb_2-WMnO_6 . *Inorg. Mater.* transl. *Izv. Akad. Nauk SSSR Neorg. Mater.* 17 (1976) 405
- REICHEN, W. (Univ. Lausanne, Inst. Chim. Org., CH-1005 Lausanne, Switzerland): Thermolyse von Carbamoylaziden. I. Hochvakuumthermolyse von Dialkylcarbamoylaziden. *Helv. Chim. Acta* 59 (1976) 2601
- RICHARD, C., MARTIN, R. (Univ. Nancy 1, CNRS, Dept. Chim. Phys. Petr., Equip. Rech. 136, F-54037 Nancy, France): La réaction thermique, vers 500°C, du butène-2 cis pur ou en présence d'éthanal. *J. Chim. Phys.* 73 (1976) 745
- ROBINSON, W. H. (OSIR, Phys. and Engn. Lab., Lower Hutt, New Zealand): Premelting in alkali halides due to the thermal formation of dislocations. *J. Appl. Phys.* 47 (1976) 5121
- ROHATSCHKE, H. (Johannes Kepler Univ., Inst. Phys., A-4045 Linz, Österreich): Zur praktischen Durchführung der Wärmeleitfähigkeitsmessung mit der Kugelsonde. *J. Int. Heat Mass Transfer* 19 (1976) 1433
- ROMM, I. P., ZAYAKINA, T. A., SHEINKER, V. N., GURYANOVA, E. N., GARNOVSKII, A. D., OSIPOV, O. A. (Rostov State Univ., Rostov, USSR): Structure and properties of heterocyclic compounds and their complexes. 29. Study of complex formation of azoles with $AlBr_3$ and $SbCl_5$ by calorimetric and cryoscopic titration methods. *Zh. Obshch. Khim.* 46 (1976) 2279 (In Russian)
- SAFONOV, V. V., IVNITSKAYA, R. B., OSIPOV, N. V. (M. V. Lomonosov Fine Chem. Technol. Inst., Moscow, USSR): Thermography of interaction of iron(II), manga-

- nese(II), tantalum(V) and tungsten(VI) chlorides. *Zh. Neorg. Khim.* 21 (1976) 2947 (In Russian)
- SAKAI, T., HALTORI, M. (Waseda Univ., Sch. Sci. and Engn., Dept. Elect. Engn., Shinju-ku, Tokyo, Japan): Thermal decarbonylation of catechol, hydroquinone and resorcinol. *Chem. Lett.* (1976) 1153
- SANDHU, R. S., SINGH, K. (Guru Nanak Dev. Univ., Dept. Chem. Amritsar, 143005 India): A thermodynamic study of the complexation reaction of beryllium(II), magnesium(II) and calcium(II) with 3-hydroxy-2-naphthoic acid. *Thermochem. Acta* 17 (1976) 325
- SANTOSMACIAS, A., BALLESTERREVENTOS, L., ROJASGIL, E., MORENOMARTINEZ, V. (CSIC, Inst. Quim. Inorg., Elhuyar, Madrid, Spain): Derivatives of acetylenic hydrocarbons and alkaline metals. 3. Thermal decomposition of derivatives of para-diethynylbenzene and cyclohexylethyne. *An. Quim.* 72 (1976) 779
- SCHNEIDER, N. S., DESPER, C. R., SINGLER, R. E. (USA, Mat. and Mech. Res. Ctr., Org. Mat. Lab., Watertown, Mass., 02171 USA): The thermal transition behavior of polyorgano-phosphazenes. *J. Appl. Polym. Sci.* 20 (1976) 3087
- SCHORE, N. E., ILEDA, C., BERGMAN, R. G. (c/o R. G. Bergman, Caltech, Chem. Labs., Pasadena, Calif., 91125 USA): Synthesis of a doubly alkylated binuclear cobalt carbonyl complex. Generation of acetone, a process involving the formation of two new carbon-carbon bonds, in its thermal decomposition. *J. Amer. Chem. Soc.* 98 (1976) 7436
- ŠEBENDA, J., HAUER, J., BIROŠ, J. (Czechoslovak Acad. Sci., Inst., Macromolec. Chem., CS-16206 Prague 6, Czechoslovakia): Preparation and heat of polymerization of 3-methyl-3-butyl-2-azetidione. *J. Polym. Sci. Polym. Chem. Ed.* 14 (1976) 2857
- SEVAST'YANOV, V. I., OVCHARENKO, E. N., LYASHIK, T. V. (Acad. Sci. USSR, Chem. Phys. Inst., Moscow, USSR): Study of the oxidation of highly-dispersed metals as nonchain inhibitors of the thermal-oxidative degradation of polymers. *Vysokomol. Soedin.* 19 (1976) 790 (In Russian)
- SHCHUKAREV, S. A., MOROZOVA, M. P., AVRAMENKO, A. G. (Leningrad State Univ., Leningrad, USSR): Synthesis and enthalpies of $Zn_2Mo_3O_8$ and $Mg_2Mi_3O_8$ formation. *Zh. Obshch. Khim.* 46 (1976) 2379 (In Russian)
- SHEN, J. BRADLEY, M. P. T. (Stand. Oil. Co. Ohio, Warrensville Hts., Ohio, 44128 USA): Versatile mass spectrometric inlet system for high boiling liquid samples and for thermoanalysis of nonvolatile materials. *Anal. Chem.* 48 (1976) 2291
- SHEVCHENKO, S. A., GROPYANOV, V. M., BELYAEVA, N. D. (Moscow Appl. Chem. Inst., Moscow, USSR): Polymorphic transitions of aluminium oxide obtained under low-temperature plasma conditions. *Inorg. Mater. transl. Izv. Akad. Nauk SSSR Neorg. Mater.* 12 (1976) 384
- SHEVCHENKO, Y. N., DAVIDENKO, N. K., VYSOTSKAYA, G. A. (L. V. Pisarzhevskii Phys. Chem. Inst. Kiev, UkSSR): The preparation and thermal decomposition of $[Co(en)_3]F_3$ and $[Cr(en)_3]F_3$ complexes. *Zh. Neorg. Khim.* 21 (1976) 2400 (In Russian)
- SHIROKOVA, G. N., ZHUK, S. Y., ROSOLOVSKII, V. Y.: Thermal conversions of potassium nitratoaluminates. *Zh. Neorg. Khim.* 21 (1976) 2823 (In Russian)
- SHUBOCHKIN, L. K., SOROKINA, L. D., SHUBOCHKINA, E. F. (N. S. Kurnakov, Gen. and Inorg. Chem. Inst., Moscow, USSR): Thermal decomposition of halopalladates(II) and (IV) of alkali metals. *Zh. Neorg. Khim.* 21 (1976) 2567 (In Russian)
- ŠIMA, V., ŠTERNBERK, J., SMETANA, Z., SECHLOVSKÝ, V. (Charles Univ., Fac. Math. and Phys., CS-12116 Prague, Czechoslovakia): Field and temperature dependence of magnetization of U_3P_4 . *Czech. J. Phys. B* 26 (1976) 1167
- SIMONENKO, I. B.: Limit problem in thermal conductivity in a nonhomogeneous medium. *Sib. Math. J. transl. Sib. Matem. Zh.* 16 (1976) 991
- SINGH, V. P., HEMKAR, M. P. (Univ. Allahabad, Dept. Phys., Allahabad, 211002 India): Dynamical study of the temperature dependence of Grüneisen parameters in alkali metals. *Phys. Status Solidi B* 78 (1976) 381
- SIROTA, N. N., KOFMAN, N. A. (Acad. Sci. BeSSR, Solid. State Phys. and Semicond. Inst., Minsk, BeSSR): Temperature dependence of the thermodynamic func-

- tions of boron nitride of wurtzite modification in the 5–320 °K range. *Dokl. Akad. Nauk SSSR* 230 (1976) 82 (In Russian)
- SKÖLD, R., SUURKUUSK, J., WADSÖ, J. (Univ. Lund, Ctr. Chem., Thermochem. Lab., S-22007 Lund 7, Sweden): Thermochemistry of solutions of biochemical model compounds. 7. Aqueous solutions of some amides, t-butanol and pentanol. *J. Chem. Thermodyn.* 8 (1976) 1075
- SMITH, G. W. (G. M. Corp., Res. Lab., Warren, Mich., 48 090 USA): Thermal parameters for crystal-mesophase and crystal-crystal transitions of some benzylidene-anilines. *Mol. Cryst. Liquid Cryst.* 34 (1976) 87
- SOLYMOSSI, F. (Hungarian Acad. Sci., Reaction Kinetics Res. Grp., Szeged, Hungary): Kinetics and mechanism of the thermal decomposition of metal chlorites, chlorates and perchlorates. *Acta Phys. Chem.* 22 (1976) 75
- SOULIER, J. P., CHABERT, B., CHAUCHARD, J., SEYTRE, G. (Univ. Lyon 1, Chim. Cycle Synth. Minerale Lab. 1, F-96621 Villeurbanne, France): Comportement thermique de polyamides et polysulfonamides "semi-aromatiques". *Eur. Polym. Sci.* 12 (1976) 765
- SRIVASTAVA, G. P. (Univ. Newcastle upon Tyne, Dept. Theoret. Phys., Newcastle Tyne NE1 7RU, Northumberland, England): Calculation of lattice thermal conductivity of Ge from 4 to 900 K. *Phil. Mag.* 34 (1976) 795
- STANLEY, H. E., BIRGENEAU, R. J., Reynolds, P. J., NICOLL, J. F. (Boston Univ., Dept. Phys., Boston Mass., 02215 USA): Thermally driven phase transitions near the percolation threshold in two dimensions. *J. Phys. C* 9 (1976) L. 553
- STAYNOV, D. Z. (Bulgarian Acad. Sci., Fac. Biochem., 1113 Sofia, Bulgaria): Thermal denaturation profiles and the structure of chromatin. *Nature* 264 (1976) 522
- SUAREZCARDES, J. M., GONZALEZGARCIA, S. (Univ. Granada, Fac. Farm., Catedra Quim. Inorg., Granada, Spain): D1 propylenediaminetetraacetic acid complexes with transition elemental cations. 10. Heats and entropies of reaction of complexes with divalent ions of its transition series. *An. Quim.* 72 (1976) 753
- SUDAKOVA, N. P., KALISHEVICH, G. I., KRENTSIS, R. P. (S. M. Kirov Polytech. Inst., Sverdlovsk, USSR): Thermal properties of the η -phase of the system Fe-Si. *Inorg. Mater.* transl. *Izv. Akad. Nauk SSSR Neorg. Mater.* 12 (1976) 306
- SZÉKELY, T., LENGYEL, M., PÁPKOV, V. S., ZATCHERNYUK, A. E., ZHDANOV, A. A., ANDRIANOV, K. A. (Hungarian Acad. Sci., Inorg. Chem. Res. Lab., H-1502 Budapest, Hungary): Calorimetric investigation on the polymerization of cis-2,4-dimethyl-2, 4, 8, 10, 10-hexaphenylspiro(5,5)-pestaniloxane. *Acta Chim. Acad. Sci. Hung.* 89 (1976) 307
- TAGIROV, V. K., CHIZHIKOV, D. M., KAZENAS E. K., SHUBOCHKIN, L. K.: Thermal dissociation of platinum and palladium oxides. *Zh. Neorg. Khim.* 21 (1976) 2565 (In Russian)
- TAKASHIMA, M. (Osaka City Univ., Fac. Sci. Dept. Phys., Osaka, Japan): The Soret effect on the thermal instability of a two-component fluid layer. *J. Phys. Soc. Jap.* 41 (1976) 1394
- TEPLOV, A. A., MIKHEYEVA, M. N., GOLYANOV, V. M., GUSYEV, A. N. (I. V. Kurchatov Atom Energy Inst., Moscow, USSR): Superconductivity transition temperature, critical magnetic fields and structure of vanadium films. *Zh. Eksp. Teor. Fiz.* 71 (1976) 1122 (In Russian)
- THIBBLIN, A., AHLBERG, P. (Univ. Uppsala, Inst. Chem., S-75121 Uppsala, Sweden): Competing thermal epimerisation, rearrangement and acetic acid elimination reactions of erythro- and threo-1-(1-acetoxyethyl)-indene. *Chem. Scr.* 10 (1976) 27
- THOMANN, CH., BENN, J. E. (Univ. Zürich, Dept. Phys., CH-8006 Zürich, Switzerland): A new type of double-compensated calorimeter for absolute beam intensity measurements. *Nucl. Instrum. Methods* 138 (1976) 293
- THURZO, I., DOUPOVEC, J. (Slovak Acad. Sci., Inst. Phys., CS-89930 Bratislava, Czechlovakia): Thermally stimulated depolarization of glassy As_2S_3 . *J. Non-Cryst. Solids* 22 (1976) 205
- TOBLER, R. L. (Inst. Basic Stand., Div.

- Cryogenics, Boulder, Colo., 80302 USA): Low temperature effects on the fracture behaviour of a nickel-base superalloy. *Cryogenics* 16 (1976) 669
- TRUNIN, A. S., BUKHALOVA, G. A., PETROVA, D. G., GARKUSHIN, I. K. (V. V. Kuibyshev Polytech. Inst., Kuibyshev, USSR): Thermal analysis of the Na // F, Cl, MoO₄ system. *Zh. Neorg. Khim.* 21 (1976) 2506 (In Russian)
- TRUNIN, A. S., GARKUSHIN, I. K., DATSYUK, S. A. (V. V. Kuibyshev Polytech. Inst., Kuibyshev, USSR): Thermal analysis of the K, Ca // MoO₄, WO₄ system. *Zh. Neorg. Khim.* 21 (1976) 2770 (In Russian)
- TSANG, T. W. E., GSCHNEIDNER, K. A., SCHMIDT, F. A. (US Erda, Ames Lab., Ames, Ia., 50 011 USA): Low temperature heat capacity of electrotransported scandium. *Solid State Commun.* 20 (1976) 737
- TSIOVKIN, Y. N., KOUROV, N. I., VOLKENSHTSEYN, N. V. (Acad. Sci. USSR, Ural Sci. Ctr., Met. Phys. Inst., Sverdlovsk, USSR): Curie temperature dependence on composition and pressure in (Pd_xPt_{1-x})₃Fe alloys. *Fiz. Metal. Metalloved.* 42 (1976) 406 (In Russian)
- TSIVINSKY, S. V. (Acad. Sci. UkSSR, Low Temp. Engn. Phys. Inst., Kharkov, UkSSR): Thermal fluctuation theory of durability of solids. *Mater. Sci. Engn.* 26 (1976) 13
- VAN TETS, A. (Atom Energy Board, Pretoria, 0001 South Africa): Accurate determination of a modified exponential integral, with special reference to thermal analysis. *Thermochim. Acta* 17 (1976) 372
- VAN VECHTEN, J. A., THURMOND, C. D. (IBM Corp., Thomas J. Watson Res. Ctr., Yorktown, N. Y., 10 598 USA): Comparison of theory with quenching experiments for the entropy and enthalpy of vacancy formation in Si and Ge. *Phys. Rev. B* 14 (1976) 3551
- VASILEV, V. P., BELOGONOVA, A. K. (Ivanovo Chem. Technol. Inst., Ivanovo, USSR): Thermodynamic characteristics of the formation reaction of nickel and cobalt ethylenediaminetetraacetate complexes in aqueous solution. *Zh. Neorg. Khim.* 21 (1976) 2982 (In Russian)
- VASILEV, V. P., KOCHERGINA, L. A., ORLOVA, T. D. (Ivanovo Chem. Technol. Inst., Ivanovo, USSR): Heat of ionization of ethylenediaminetetraacetic acid according to 2nd step at various temperatures. *Zh. Obshch. Khim.* 46 (1976) 2192 (In Russian)
- VASILEV, V. P., LYTKIN, A. I. (Ivanovo Chem. Technol. Inst., Ivanovo, USSR): Standard enthalpy of the formation of zirconium (IV) ion in aqueous solution. *Zh. Neorg. Khim.* 21 (1976) 2610 (In Russian)
- VASILEV, V. P., LYTKIN, A. I. (Ivanovo Chem. Technol. Inst., Ivanovo, USSR): Standard enthalpy of hafnium(IV) ion formation in aqueous solution. *Zh. Neorg. Khim.* 21 (1976) 3037 (In Russian)
- VASILEV, V. P., ORLOVA, T. D., KOCHERGINA, L. A. (Ivanovo Chem. Technol. Inst., Ivanovo, USSR): Integral heat of dissolution of liquid nitrogen tetroxide in nitric acid. *Zh. Neorg. Khim.* 21 (1976) 2557 (In Russian)
- VASSERMAN, A. A. (Odessa Merchant Marine Engr. Inst., Odessa, UkSSR): Calculation of isochoric heat capacity of liquid according to a single equation of state. *Zh. Fiz. Khim.* 50 (1976) 2669 (In Russian)
- VERNEKER, V. R. P., SHARMA, A. N., JAIN S. R. (Indian Inst. Sci., Dept. Inorg. and Phys. Chem., High Energy Solids Lab., Bangalore, 560 012 India): Thermal decomposition of hydrazinium monoperochlorate in the solid state. *Thermochim. Acta* 17 (1976) 319
- VESNOVSKII, B. P. (N. I. Lobachevskii State Univ., Chem. Res. Inst., Gorki, USSR): Thermography of the zinc salts of dicarboxylic acids. *Zh. Neorg. Khim.* 21 (1976) 2651 (In Russian)
- VIDAL, A., PAPIRER, E., DONNET, J. B. (CNRS Ctr. Rech. Physicochem. Surfaces Solides, F-68200 Mulhouse, France): Interactions between a telechelic polymer and a silica. 1. Influence of the polymer concentration — measure of the solvolysis temperature. *Eur. Polym. Sci.* 12 (1976) 791
- VOGT, G. J., PITZER, K. S. (Univ. Calif. Dept. Chem., Berkeley, Calif., 94720 USA): Entropy and heat capacity of methane; spin-species conversion. *J. Chem. Thermodyn.* 8. (1976) 1011
- VOLOZHIN, A. I., SOLNTSEV, A. P., NEZH-

- VITSKAYA, G. B., PAUSKIN, Y. M. (Acad. Sci. BeSSR, Phys. Org. Chem. Inst., Minsk, BeSSR): Study of thermal polymerization of unsaturated cycloaliphatic bicarbonic N=N'-bisimides. *Dokl. Akad. Nauk BeSSR* 20 (1976) 1004 (In Russian)
- VORHAUS, J. L., ANDERSON, A. C. (Univ. Illinois, Dept. Phys., Urbana, Ill., 61801 USA): Lattice thermal conductivity of copper alloys below 2K. *Phys. Rev. B* 14 (1976) 3256
- VOROBIEV, A. F., PRIVALOVA, N. M., SOLOVIEV, S. N. (M. V. Lomonosov State Univ., Moscow, USSR): Thermochemistry of potassium and sodium iodide solutions in ethylformamide — formamide anhydrous mixtures. *Dokl. Akad. Nauk SSSR* 230 (1976) 338 (In Russian)
- WADA, Y., HAYAKAWA, R. (Hitachi Ltd., Cent. Res. Lab., Kokubunji, Tokyo, Japan): Piezoelectricity and pyroelectricity of polymers. *Jap. J. Appl. Phys.* 15 (1976) 2041
- WARNES, L. A. A., KING, H. W. (Dalhousie Univ., Dept. Engn. Phys., Halifax, B3H 3S6, Nova Scotia, Canada): The low temperature magnetic properties of austenitic Fe-Cr-Ni alloys. 2. The prediction of Néel temperatures and maximum susceptibilities. *Cryogenics* 16 (1976) 659
- WENDLANDT, W. W., STRANAHAN, J. (Univ. Houston, Dept. Chem., Houston, Tex., 77 004 USA): A combined titration calorimeter and fixed wavelength calorimeter. *Thermochim. Acta* 17 (1976) 295
- WESOŁOWSKI M., LEWICKA, M. (Sch. Med. Gdańsk, Inst. Chem. and Anal., PL-80 416 Gdańsk, Poland): Thermal decomposition of thiosalicylamide complexes of cobalt(II), nickel(II) and molybdenum(VI). *Rocz. Chem.* 50 (1976) 1607
- WILSON, J. W. (New Univ. Ulster, Sch. Phys. Sci., Coleraine, North Ireland): Standard enthalpy of solution and formation of tetramethylammonium fluoride. *J. Chem. Thermodyn.* 8 (1976) 1107
- WŁOSEWICZ, D., BARTKOWSKI, K., RAFAŁOWICZ, J. (Polish Acad. Sci., Inst. Low Temp. and Struct. Res., PL-53529 Wrocław, Poland): The dependence of thermal conductivity of polish-made industrial binary brasses in the temperature range of 80 to 280 K on zinc concentration in the alloy. *Acta Phys. Pol.* 50 (1976) 451
- WOERMANN, D. (Univ. Köln, Inst. Phys. Chem., D-5000 Köln, GFR): Temperature-jump experiments with a binary critical mixture near the critical temperature. *Ber. Bunsen Ges. Phys. Chem.* 80 (1976) 958
- WOLF, G., ZIMMERMANN, M. (Bergakad. Freiberg, Sect. Chem., DDR-92 Freiberg, GDR): The molar heat capacity of superconducting PdD_x in the temperature range from 2 to 12 K. *Phys. Status Solidi A* 37 (1976) 485
- WONG, V. K., GOULD, H. (Univ. Michigan, Dept. Phys., Ann Arbor, Mich., 48109 USA): Specific heat of interacting Bose system at low temperatures. *Phys. Rev. B* 14 (1976) 3961
- WU, R. S., CHENG, K. C. (Univ. Alberta, Dept. Mech. Engn., Edmonton, Alberta, Canada): Thermal instability of Hartmann flow in the thermal entrance region of horizontal parallel-plate channels heated from below. *J. Int. Heat Mass Transfer* 19 (1976) 1343
- YALOF, S. A. (Tetrahedron Assoc. Inc., San Diego, Calif., 92111 USA): ETMA: the combined electrical, thermal, mechanical analysis of the behavior of materials with unirelax. *Thermochim. Acta* 17 (1976) 301
- YOSHIDA, H., TAKETANI, H., OGATA, T., INOKAWA, S. (Shizuoka Univ., Fac. Engn., Dept. Synth. Chem. Hamamatsu 432, Japan): The thermal decomposition of N-thiocarbonyl diphenylsulfimides. *Bull. Chem. Soc. Jap.* 49 (1976) 3124
- ZAJDENMAN, I. A.: "Reverse problems" of the theory of selective sensors for the composition of the surrounding medium and "Reverse problems" of thermal conductivity. *Sov. Electrochem.* transl. *Elektrokhim.* 12 (1976) 263
- ZAINUTDINOV, S. S., DZHALILOV, A. T., ASKAROV, M. A. (A. R. Beruni Polytech. Inst., Tashkent, UzSSR): Investigation of thermal stability and mechanical strength of anion-exchange resins based on vinylpyridines and epichlorohydrin. *J. Appl. Chem. USSR* transl. *Zh. Prikl. Khim.* 49 (1976) 722

- ZAKHARKINA, L. I., KOROTCHENKO, N. A., LUNENOKBURMAKINA, V. A., KOZLOVA, L. I., BOGDANOV, G. A., MIROSHNICHENKO, A. G. (Moscow Text. Inst., Moscow, USSR): Thermal decomposition of lithium and cesium peroxotungstates. *Zh. Fiz. Khim.* 50 (1976) 2677 (In Russian)
- ZALUKAEV, L. P., VORONKOV, M. G., MOISEEVA, L. V., AFANASJEV, S. V., (Acad. Sci. USSR, Org. Chem. Inst., Irkutsk, USSR): The effect of the solvent on thermal cis, trans-isomerization of substituted azobenzenes. *Dokl. Akad. Nauk SSSR* 230 (1976) 136 (In Russian)
- ZASLAVSKAYA, N. N., GILYAROV, V. A., KABACHNIK, M. I. (Acad. Sci. USSR, Inst. Organoelement. Cpd., Moscow, USSR): Thermal isomerization of tri-alkyl-N-(tetraalkyldiaminophosphinyl)imidophates. *Bull. Acad. Sci. USSR Div. Chem. Sci.* transl. *Izv. Akad. Nauk SSSR Ser. Khim.* 25 (1976) 662
- ZAYMOVSKIY, V. A., SIDORENKO, V. I., SHVEDOVA, T. L. (Moscow Steel and Alloy Inst., Moscow, USSR): Peculiarities of construction steel rupture after thermo-mechanical isothermal treatment. *Fiz. Metal. Metalloved.* 42 (1976) 105 (In Russian)
- ZEMLYANOL, G. YA., DUSCHENKO, V. P., (V. G. Belinskii State Teachers Inst., Nikolaev, UkSSR): Temperature dependence of the specific heat capacity of polycarbonate. *Vysokomol. Soedin.* 18 (1976) 752 (In Russian)