

## Bibliography Section

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- ABATE, L., SIRACUSA, G., CASTELLI, F., MAGGIORE, R. (Univ. Catania, Ist. Chim. e Chim. Ind., I-95125 Catania, Italy): Enthalpimetric measurements in solid-solid reactions. VII. A study of the uranyl acetate-phenylurea system. *Thermochim. Acta* 46 (1981)
- ABDULLAEV, G. K. (Acad. Sci. AzSSR, Inst. Inorgan. and Phys. Chem., Baku, AzSSR): Thermal conversion of synthetic borax  $\text{Na}_2[\text{B}_4\text{O}_5(\text{OH})_4] \cdot 8 \text{H}_2\text{O}$ . *Zh. Neorg. Khim.* 26 (1981) 1510 (in Russian)
- ADAM, W., DE LUCCHI, O. (c/o O. De Lucchi, Univ. Puerto Rico, Dept. Chem., Rio Piedras, P. R., 00931 USA): Thermal and photochemical denitrogenation of a polycyclic azoalkane as mechanistic probe for the di-pi-methane rearrangement of 7,7-dimethylenebenzonorbornadiene. *Angew. Chem. Int. Ed. Engl.* 20 (1981) 400
- ADAMOVICH, T. P., GAPONIK, P. N., GUSLEV, U. G., LESNIKOVICH, A. I. (V. I. Lenin State Univ., Dept. Inorgan. Chem., Minsk, BeSSR): Thermal decomposition of ferricenium picrate. *Izv. Vyssh. Uch. Zav.* 24 (1981) 433 (in Russian)
- ADEMBRI, G., CAMPARINI, A., PONTICELLI, F., TEDESCHI, P. (Univ. Siena, Ist. Chim. Organ., I-53100 Siena, Italy): Thermal behaviour of 3-phenyl-1,2,4-oxadiazol-5-ylhyrazines. *J. Chem. Soc. Perkin Trans. I* (1981) 1703
- ALEXANDRESCU, R., COMANCIU, N., CRISTU, D., DRAGANESCU, V., DRĂGULINESCU, D., DUMITRAS, D., DUTU, D. C., GRIGORIU, C., MORJAN, I. (Inst. Phys. and Technol. Radiat. Devices, POB 5206, Bucharest, Romania): Multiphoton decomposition of 1,1-difluorethane by a TEA  $\text{CO}_2$  laser. *Rev. Roum. Phys.* 26 (1981) 275
- ALFER, S. A., VECHER, A. A., EGOROV, O. A., MECHKOVSKII, L. A. (V. I. Lenin State Univ., Minsk, BeSSR): Enthalpies of mixing in germanium-indium-tellurium system. *Zh. Fiz. Khim.* 55 (1981) 1613 (in Russian)
- ALFER, S. A., VECHER, A. A., EGOROV, O. A., MECHKOVSKII, L. A. (V. I. Lenin State Univ., Minsk, BeSSR): Enthalpies of mixing in germanium-antimony-tellurium system. *Zh. Fiz. Khim.* 55 (1981) 1611 (in Russian)
- ALIEV, A. O., BAUKIN, I. S., TAGIROV, V. I., GAKHRAMANOV, N. F. (S. M. Kirov State Univ., Baku, AzSSR): The temperature dependence of thermopower in single crystals of  $\text{Sb}_2\text{S}_3\text{Sb}_2\text{Se}_3$  solid solutions. *Izv. Akad. Nauk Azerb. SSR* (1980) 71 (in Russian)
- ALTENA, F. W., SMOLDERS, C. A. (Twente Univ. Technol., Dept. Chim. Technol., Enschede, Netherlands): Phase separation phenomena in solutions of cellulose acetate. I. Differential scanning calorimetry of cellulose acetate in mixtures of dioxane and water. *J. Polym. Sci. Polym. Symp. Ed.* 69 (1981) 1
- ALY, F. A., LEE, L. L. (Univ. Oklahoma, Sch. Chem. Engn. and Mat. Sci., Norman, Okla., 73019 USA): Self-consistent equations for calculating the ideal gas heat capacity, enthalpy, and entropy. *Fluid Phase Equilibria* 6 (1981) 169
- ALY, N. F., FAHMY, A. F. M., BABBAWY, H. A., ALKHATEEB, A. N. (c/o A. F. M. Fahmy, Ain Shams Univ., Fac. Sci., Dept. Chem., Cairo, Egypt): Thermal fragmentation of some beta-ketoanilides. *Indian J. Chem. B* 20 (1981) 489
- AMALDI, U. (CERN, CH-1211 Geneva, 23 Switzerland): Fluctuations in calorimetry measurements. *Phys. Scr.* 23 (1981) 409
- ANAN'INA, D. B., BAKUMENKO, V. L., BONAKOV, A. K., GRUSHKA, G. G.-

- KHEIFETS, V. L.: Influence of heat treatment on the properties of  $Hg_3In_2Te_6$ . *Inorg. Mater.* transl. *Izv. Akad. Nauk SSSR Neorg. Mater.* 16 (1980) 1043
- ARIBIKE, D. S., SUSU, A. A., OGUNYE, A. F. (Univ. Lagos, Dept. Chem. Engn., Lagos, Nigeria): Kinetics of the thermal decomposition of cyclohexane. *Thermochim. Acta* 47 (1981) 1
- ARMITAGE, D. (Lockheed Co., Res. Lab., Palo Alto, Calif., 95123 USA): Thermal properties and heat flow in the laser addressed liquid-crystal display. *J. Appl. Phys.* 52 (1981) 1294
- ARROTT, A. S., HEINRICH, B. (Simon Fraser Univ., Dept. Phys., Burnaby, BC, V5A 156 Canada): Application of magnetization measurements in iron to high temperature thermometry. *J. Appl. Phys.* 52 (1981) 2113
- ARUGA, R. (Univ. Turin, Inst. Analyt. Chem., Via P. Giuria 5, I-101 25 Turin, Italy): Desolvation processes in the association of peroxodisulfate and sulfate with bivalent metals in aqueous solution. A calorimetric study. *J. Inorg. Nucl. Chem.* 43 (1981) 1859
- ARUTYNNYAN, N. V., DAUGVILA, Y. Y., OSTROVSKII, B. I., SONIN, A. S., SORKIN, E. L., STRUKOV, B. A., TARASKIN, S. A. (All. Union Opt. Phys. Measurement Res. Inst., Moscow, USSR): Specific heat anomalies at smectic C — smectic A and smectic A — nematic phase transitions in liquid crystals. *Fiz. Tverd. Tela* 23 (1981) 1373 (in Russian)
- ASSAEL, M. J., Wakeham Imperial Coll., Dept. Chem. Engn. and Chem. Technol., London SW7 2BY, England): Thermal conductivity of four polyatomic gases. *J. Chem. Soc. Faraday Trans. I*, 77 (1981) 697
- ASTBURY, A. (Rutherford High Energy Lab., Didcot OX11 0QX, Oxfordshire, England): Calorimeter facilities. *Phys. Scr.* 23 (1981) 397
- ATAKOVA, E. M.: Investigation of the process of anomalously rapid thermal oxidation of GaAs. *Krystallografiya SSSR* 26 (1981) 810 (in Russian)
- AUDIER, M., BERNARD, C. (Ecole Natl. Super Electrochim. et Electromet. Grenoble, Absorpt. et React. Gaz Solides Lab., F-38401 St. Martin d'Heres, France): Vapor-solid equilibrium for the C—H—O—Ni system. *Thermochim. Acta* 46 (1981) 191
- AUGST, G. R., BAKHSHETSYAN, L. G. (Acad. Sci. GeSSR, Inst. Phys., Tbilisi, GeSSR): Calculation of the heat of solution in alkali halide crystals by the lattice static method. *Phys. Status Solidi B* 104 (1981) K 85
- BANERJEE, B., BISWAS, P. K., CHAUDHURI, N. R. (c/o N.R. Chaudhuri, Indian Assoc. Cultivat. Sci., Dept. Inorgan. Chem., Calcutta 700032, India): Thermal decomposition of compounds containing the hydrazinium cation as a ligand. *Thermochim. Acta* 47 (1981) 15
- BANERJEE, B., BISWAS, P. K., CHAUDHURI, N. R. (c/o N. R. Chaudhuri, Indian Assoc. Cultivat. Sci., Dept. Inorgan. Chem., Calcutta 700032, India): Thermal investigation of metal fluoberyllate hydrates and metal fluoride hydrates. *Thermochim. Acta* 47 (1981) 179
- BANERJEE, S. P. (Univ. Saligar, Dept. Chem., Sagar 470003 Madhya Pradesh, India): Thermogravimetric and IR spectroscopic studies of tricesylphosphate-sorbed zeolite 3A. *Thermochim. Acta* 47 (1981) 207
- BANSAL, R. K., KUSH, P. K. (Indian Inst. Technol., Dept. Chem., New Delhi, 110016 India): Thermal and dielectric properties of epoxy resins. *Angew. Makromol. Chem.* 97 (1981) 13
- BARDAKCI, T., GASNER, L. L. (Catholic Univ. Amer., Dept. Chem. Eng., Washington, D. C., 20064 USA): Experimental studies using a single pellet high temperature diffusion cell reactor. *Thermochim. Acta* 45 (1981) 233
- BENSON, G. C., D'ARCY, P. J., HANDA, Y. P. (Nat'l. Res. Council Canada, Div. Chem., Ottawa, Ontario, K1A 0R6 Canada): Thermodynamics of aqueous mixtures of nonelectrolytes. V. Isobaric heat capacities and ultrasonic speeds for water + ethane-nitrile mixtures at 25 °C. *Thermochim. Acta* 46 (1981) 295
- BENSON, G. C., D'ARCY, P. J., KIYOHARA, O. (Nat'l. Res. Council Canada, Div. Chem., Ottawa, Ontario, K1A 0R6 Canada): Thermodynamics of aqueous mixtures of nonelectrolytes. II. Isobaric heat capacities of water-n-alcohol mixtures at 25 °C. *J. Solut. Chem.* 9 (1980) 931
- BERMAN, D. W., BEAUCHAMP, J. L., THORNE, L. R. (Caltech, Arthur Amos Noyes Lab. Chem. Phys., Dept. Chem., Pasadena,

- Calif., 91125 USA): Ion cyclotron resonance and photoionization investigations of the thermochemistry and reactions of ions derived from  $\text{CF}_3\text{I}$ . *Int. J. Mass Spectr. Ion Phys.* 39 (1981) 47
- BESPAЛОV, V. I., KOKHУZHКIN, A. M. (S. M. Kirov Polytech. Inst., Tomsk, USSR): Transition effect in ionization calorimeter. *Izv. Akad. Nauk SSSR* 45 (1981) 1316 (in Russian)
- BIMBERG, D., BUBENZER, A. (Rhein. Westfal. TH Aachen, Inst. Halbleitertech., D-5100 Aachen, GFR): Calorimetric absorption spectroscopy of nonradiative recombination processes in GaP. *Appl. Phys. Lett.* 38 (1981) 803
- BISCHOF, J. (Res. Inst. Elect. Engn., CS-25097 Praha 9, Czechoslovakia): Thermal conductivity of the  $\text{Nb}_3\text{Ge}$  layer prepared by the continuous deposition method. *Czech. J. Phys. B* 31 (1981) 635
- BLAŻEJOWSKI, J., SZYCHLIŃSKI, J., WINDORPSKA, K. (Univ. Gdańsk, Inst. Chem., Sobieskiego 18, PL-80952 Gdańsk, Poland): Thermal reactions of lead(IV) chloride complexes in the solid state. IV. Thermolysis of alkali metal hexachloropolumbates. *Thermochim. Acta* 46 (1981) 147
- BLOEMEN, E., GARLAND, C. W. (MIT, Dept. Chem., Cambridge, Mass., 02139 USA): Calorimetric investigation of phase transitions in butyloxybenzylidene heptylaniline (40.7). *J. Phys.* 42 (1981) 1299
- BLOEMEN, E., THOEN, J., VAN DAEL, W. (Catholic Univ. Leuven, Molek. Fys. Lab., B-3030 Heverlee, Belgium): The specific heat anomaly in some ternary liquid mixtures near a critical solution point. *J. Chem. Phys.* 75 (1981) 1488
- BORELIUS, G. (Royal Inst. Technol., S-10044 Stockholm 70, Sweden): Internal pressure and electron specific heat in transition metals. *Phys. Lett. A* 83 (1981) 43
- BORSESE, A., BORZONE, G., MAZZONE, D., FERRO, R. (Univ. Genoa, Ist. Chim. Gen. ed Inorg., I-16132 Genoa, Italy): Heats of formation of Ce-Sb alloys. *J. Less-Common Metals* 79 (1981) 57
- BOSNYÁK, C. P., KNIGHT, G. J., WRIGHT, W. W. (Univ. Birmingham, Dept. Chem., Birmingham, B15 2TT, W. Midlands, England): Thermal stability of some aromatic polyesters and poly(ester carbonates). *Polym. Degrad. Stabil.* 3 (1981) 273
- BOTNER, O. (CERN, CH-1211 Geneva 23, Switzerland): New ideas in calorimetry. *Phys. Scr.* 23 (1981) 556
- BOUGON, R., BUI HUY, T. (CENS, Dept. Physicochim., Div. Etudes Separat. Isotop. et Chim. Phys., F-91190 Gif-sur-Yvette, France): Etude calorimétrique de la décomposition thermique des sels de tetrafluoroammonium  $(\text{NF}_4)_2\text{NiF}_6$  et  $\text{NF}_4\text{SbF}_6$ . *J. Fluorine Chem.* 18 (1981) 87
- BOXUS, J., POULAERT, B., ISSI, J. P., MAZUREK, H., DRESSELHAUS, M. S. (Catholic Univ. Louvain, Phys. Chim. Lab., B-1348 Louvain-la-Neuve, Belgium): Low temperature thermal conductivity of graphite- $\text{FeCl}_3$  intercalation compounds. *Solid State Commun.* 38 (1981) 1117
- BRUNEAU, C., SOYER, N., BRAULT, A., KERFANTO, M. (Ecole Natl. Supér. Chim., Chim. Organ. et Environnement. Labs., Ave. Gen. Leclerc, F-35000 Rennes-Beaulieu, France): Thermal degradation of tri-n-butyl phosphate. *J. Anal. Appl. Pyrol.* 3 (1981) 71
- BUCHWALD, G., CSENRAI, L. P., MARUHN, J. A., GREINER, W., STÖCKER, H. (Univ. Frankfurt, Inst. Theoret. Phys., D-6000 Frankfurt, 70 GFR): Importance of nuclear viscosity and thermal conductivity and the analysis of the bounce-off effect in high energy heavy ion collisions. *Phys. Rev. C* 24 (1981) 135
- BUNKIN, F. V., KIRICHENKO, N. A., LUKYANCHUK, B. S. (P. N. Lebedev Phys. Inst., Moscow, USSR): Thermochemical phenomena, controlled by laser radiation. *Izv. Akad. Nauk SSSR* 45 (1981) 1018
- BURCHFIELD, T. E., HEPLER, L. G. (US Doe, Bartlesville Energy Technol. Ctr., Bartlesville, Okla., 74003 USA): Enthalpies of solution of 4-aminopyridine in aqueous perchloric acid at 298.15 and 303.15 K: possible use of 4-aminopyridine as an exothermic reference reaction for solution calorimetry. *J. Chem. Thermodyn.* 13 (1981) 513
- BURDETT, J. K., PRICE, S. L. (Univ. Chicago, Dept. Chem., Chicago, Ill., 60637 USA): Heats of reaction in the solid state and their relationship to Bloch-Zunger structural diagrams. *Phys. Rev. B* 23 (1981) 5642
- BURGESS, J., FAWCETT, J., PEACOCK, R. D., SHERRY, R. (Univ. Leicester, Dept. Chem., Leicester LEI 7RH, England): The enthalpy of formation of tungsten azide penta-

- fluoride. *J. Fluorine Chem.* 18 (1981) 173
- BURKART, W., KLUMP, H. (Univ. Freiburg, Inst. Phys. Chem. 2, D-7800 Freiburg, Inst. Phys. Chem. 2, D-7800 Freiburg, GFR): Thermodynamic measurements of the formation enthalpies of small ligands with nucleic acids. I. Addition on ethidium bromide to DNA and apurinic acid. *Ber. Bunsen Ges. Phys. Chem.* 85 (1981) 371
- BURKART, W., KLUMP, H. (Univ. Freiburg, Inst. Phys. Chem. 2, D-7800 Freiburg, GFR): Thermodynamic measurements of the formation enthalpies of small ligands with nucleic acids. II. Addition of oligopeptides to DNA. *Ber. Bunsen Ges. Phys. Chem.* 85 (1981) 375
- BUSCHHAUS, H. U., NEUMANN, W. P., APOUSSIDIS, T. (Univ. Dortmund, Lehrstuhl Organ. Chem., Otto-Hahn-Str., D-4600 Dortmund, 50 GFR), Erste reversible thermische Dissoziation von Distannananen  $R_3Sn - SnR_3$  zu Stannyradikalen  $R_3Sn$ . *Liebigs Ann. Chem.* (1981) 1190
- CALADO, C. G., DIAS, A. R., SALEMA, M. S., SIMÕES, J. A. M. (c/o A. R. Dias, Super-Tec. Ctr. Quim. Estrutural, Complexo 1, P-1096 Lisboa, Portugal): Enthalpies of formation of  $[M(\eta\text{-C}_6\text{H}_5)_2(\text{OOCR})_2]$  complexes; M=Mo, W, or Ti and R=C<sub>6</sub>H<sub>5</sub> or CF<sub>3</sub>. *J. Chem. Soc. Dalton Trans.* (1981) 1174
- CALATAYUD, J. M., BOSCH REIG, F., RAMIS RAMOS, G. (Fac. Ciencias Quim. Valencia, Dept. Quim. Anal., Valencia, Spain): The coordination compounds of ethylenedibiquanide. *Thermal studies. Afiniad* 38 (1981) 134
- CAPLAN, D., SPROULE, G. L. (Natl. Res. Council Canada, Div. Chem., Ottawa, Ontario, K1A OR9 Canada): On high temperature oxidation of chromium. 1. Oxidation of annealed, thermally etched chromium at 800 °C–1100 °C. 2. Properties of Cr<sub>2</sub>O<sub>3</sub> and the oxidation mechanism of chromium. *J. Electrochem. Soc.* 128 (1981) 1388
- CARLING, R. W. (Sandia Labs., Livermore, Calif., 94550 USA): Dissociation pressures and enthalpies of reaction in MgCl<sub>2</sub> · nH<sub>2</sub>O and CaCl<sub>2</sub> · nNH<sub>3</sub>. *J. Chem. Thermodyn.* 13 (1981) 503
- CASH, W. M., STANSBURY, E. E., MOORE, CF., BROOKS, C. R. (Shell Dev. Co., West-
- hollow Res. Ctr., Houston, Tex., USA): Application of a digital computer to data acquisition and shield temperature control of a high-temperature, adiabatic calorimeter. *Rev. Sci. Instr.* 52 (1981) 895
- CHERMANT, J. L., MOUSSA, R., OSTERSTOCK, F. (Univ. Caen, ISMRA, CNRS Cristallog. et Chim. Solide Lab., 251 Equipe Mat., Microstruct., F-14032 Caen, France): Propriétés thermomécaniques et analyse statistique des matériaux SiC, Si<sub>3</sub>N<sub>4</sub>, SiALON et SILCOMPS. *Rev. Int. Hautes Temp. Refract.* 18 (1981) 5
- CHEUNG, N. W., VON SEEFIELD, H., NICOLET, M. A., HO, F., ILES, P. (Univ. Calif. Berkeley, Dept. Elect. Eng. and Comp. Sci., Berkeley, Calif., 94720 USA): Thermal stability of titanium nitride for shallow junction solar cell contacts. *J. Appl. Phys.* 52 (1981) 4297
- CHIRICO, R. D., WESTRUM, E. F. (Univ. Illinois, Dept. Chem., Chicago, Ill., 60680 USA): Thermophysics of the lanthanide trihydroxides. III. Heat capacities from 5 to 350 K of the related compound Y(OH)<sub>3</sub> lattice contribution. *J. Chem. Thermodyn.* 13 (1981) 519
- CHIU, S. W., LI, W. K. (c/o W. K. Li, Chinese Univ. Hong Kong, Dept. Chem., Shatin, Hong Kong): MINDO/3 study of the thermal rearrangements of bicyclobutanylidene. *Croat. Chem. Acta* 54 (1981) 183
- CLOUGH, R. L., GILLEN, K. T. (Sandia Natl. Labs., Albuquerque, N. M., 87185 USA): Combined environment aging effects: radiation – thermal degradation of polyvinylchloride and polyethylene. *J. Polym. Sci. Polym. Chem. Ed.* 19 (1981) 2041
- COLOMINA, M., JIMENEZ, P., ROUX, M. V., TURRION, C. (CSIC, Inst. Quím. Fis. Rocasolano, Serrano, 119 Madrid – 6, Spain): Thermochemical properties of benzoic acid derivatives. 9. Combustion enthalpy and formation of ortho-hydroxybenzoic, meta-hydroxybenzoic, and para-hydroxybenzoic acids. *An. Quim. A* 77 (1981) 114 (in Spanish)
- CONNOR, J. A., EL-SAIED, N. I., MARTINHO-SIMÕES, J. A., SKINNER, H. A. (Univ. Manchester, Dept. Chem., Manchester, M13 9PL Lancashire, England): Ther enthalpies of formation of bis-(benzene)molybdenum and of bis-(toluene) tungsten. *J. Organometal Chem.* 212 (1981) 405

- COOKSEY, C. J., DEEMING, A. J., ROTHWELL, I. P. (Univ. London Univ. Coll. Dept. Chem., London, WC 1H OAJ England): Thermal degradation of dimethylvinylarlsine in triosmium clusters to give bridging vinyl, vinylidene, and acetylene ligands. *J. Chem. Soc. Dalton Trans.* (1981) 1718
- CRIADO, J. M., GONZALEZ, M. (Univ. Seville, Fac. Quim., Dept. Quim. Inorgan., Seville, Spain): The method of calculation of kinetic parameters as a possible cause of apparent compensation effects. *Thermochim. Acta* 45 (1981) 201
- CRIADO, J. M., ORTEGA, A. (Univ. Seville, Fac. Quim., Dept. Quim. Inorgan., Seville, Spain): Modification of the Hancock and Sharp "lnIn method" in order to perform the kinetic analysis of non-isothermal data. *Thermochim. Acta* 46 (1981) 209
- CRIADO, J. M., ORTEGA, A. (Univ. Seville, Fac. Quim., Dept. Quim. Inorgan., Seville, Spain): Remarks on the crystallization kinetics in the non-isothermal devitrification of glasses. *Thermochim. Acta* 46 (1981) 213
- CROUCHER, M. D., PATTERSON, D. (c/o D. Patterson, McGill Univ., Otto Maass Chem. Bldg., Montreal, Quebec, H3A 2K6 Canada): Enthalpies of solute transfer into nematic MBBA. Long-range disturbance of order. *J. Chem. Soc. Faraday Trans. I*, 77 (1981) 1237
- CSER, F., NYITRAI, K., HARDY, G., MENCZEL, J., VARGA, J. (Res. Inst. Plast Ind., H-1950 Budapest, Hungary): Mixing enthalpies of polymers with mesomorphic properties and mesogenic plasticizers. *J. Polym. Sci. Polym. Symp. Ed.* (1981) 91
- CUSHMAN, B. M., BROWN, D. B. (c/o D. B. Brown, Univ. Vermont, Dept. Chem., Burlington, Vt., 05405 USA): Thermal reactions of platinacyclobutanes: olefin and pyridinium ylide formation. *Inorg. Chem.* 20 (1981) 2490
- CZARNOWSKI, J., SCHUMACHER, H. J. (Inst. Invest. Fis. Quim. Teor. y Aplicad., 1900 La Plata, Argentina): The kinetics and the mechanism of the thermal decomposition of bis(trifluoromethyl)trioxide. The influence of carbonmonoxide on its decomposition. *Int. J. Chem. Kinet.* 13 (1981) 639
- DE BRUIJN, T. J. W., DE JONG, W. A., VAN DEN BERG, P. J. (Delft Univ. Technol., Julianalaan 136, 2628 BL Delft, Netherlands): Thermal decomposition of aqueous manganese nitrate solutions and anhydrous manganese nitrate. 1. Mechanism. *Thermochim. Acta* 45 (1981) 265
- DE BRUIJN, T. J. W., DE JONG, W. A., VAN DEN BERG, P. J. (Delft Univ. Technol., Julianalaan 136, 2628 BL Delft, Netherlands): Kinetic parameters in Avrami-Erofeev type reactions from isothermal and non-isothermal experiments. *Thermochim. Acta* 45 (1981) 315
- DE BRUIJN, T. J. W., DE RUITER, G. M. J., DE JONG W. A., VAN DEN BERG, P. J. (Delft Univ. Technol., Julianalaan 136, 2628 BL Delft, Netherlands): Thermal decomposition of aqueous manganese nitrate solutions and anhydrous manganese nitrate. 2. Heats of reaction. *Thermochim. Acta* 45 (1981) 279
- DE BRUIJN, T. J. W., IPEKOGLU, A. N., DE JONG, W. A., VAN DEN BERG, P. J. (Delft Univ. Technol., Julianalaan 136, 2628 BL Delft, Netherlands): Thermal decomposition of aqueous manganese nitrate solutions and anhydrous manganese nitrate. 3. Isothermal kinetics. *Thermochim. Acta* 45 (1981) 293
- DE BRUIJN, T. J. W., IPEKOGLU, A. N., DE JONG, W. A., VAN DEN BERG, P. J. (Delft Univ. Technol., Julianalaan 136, 2628, BL Delft, Netherlands): Thermal decomposition of aqueous manganese nitrate solutions and anhydrous manganese nitrate. 4. Non-isothermal kinetics. *Thermochim. Acta* 45 (1981) 305
- DE CASTRO, C. A. N., RODER, H. M. (Ist. Super. Tech., Ctr. Quim. Estrut. P-1096 Lisboa, Portugal): Absolute determination of the thermal conductivity of argon at room temperature and pressures up to 68MPa. *J. Res. Nat. Bur. Stand.* 86 (1981) 293
- DELLA NEGRA, M. (Lab. Annecy Vieux Phys. Particules, BP 909, F-74019 Annecy Vieux, France): Pattern recognition in calorimeters. *Phys. Scr.* 23 (1981) 469
- DEMENT'EV, A. G., NEVSKII, L. V., TARAKANOV, O. G., BELOVA, E. V. (All Union Synthet. Resin Res. Inst., Vladimir, USSR): Kinetics of thermooxidative degradation of polyurethane foams. *J. Appl. Chem. USSR transl. Zh. Prikl. Khim.* 53 (1980) 1803

- DE QUEIROZ, J. C., AIROLDI, C., CHAGAS, A. P. (c/o A. P. Chagas, Univ. Estadual Campinas, Inst. Quim., C. P. 1170, Campinas, 13100 SP Brazil): Thermochemistry of dichlorobis-(triethylphosphine oxide)-zinc(II), -cadmium(II) and -mercury(II), dichloro(triethylphosphine oxide)-mercury(II) and dichlorobis(tribenzylphosphine oxide)-zinc(II). *J. Inorg. Nucl. Chem.* 43 (1981) 1207
- DIAS, A. R., MARTINHO SIMÕES, J. A., TEIXEIRA, C. (Inst. Super. Tecn., Ctr. Quim. Estrutural, Complexo 1, P-1096 Lisboa, Portugal): Enthalpies of formation of  $[\text{Mo}(\eta-\text{C}_5\text{H}_5)_2(\text{SR})_2]$  complexes;  $\text{R} = \text{n-C}_3\text{H}_7$ ,  $\text{i-C}_3\text{H}_7$ ,  $\text{n-C}_4\text{H}_9$  or  $\text{t-C}_4\text{H}_9$ . *J. Chem. Soc. Dalton Trans.* (1981) 1178
- DICKENS, P. G., FRENCH, S. J., HIGHT, A. T., PYE, M. F., REYNOLDS, G. J. (Univ. Oxford, Inorgan. Chem. Lab., Oxford, OX1 3QR England): Thermochemistry of the high and ambient temperature lithium vanadium bronze phases  $\text{Li}_x\text{V}_2\text{O}_5$ . *Solid State Ionics* 2 (1981) 27
- DIMROTH, K., SCHAFER, O., WEIERHÄUSER, G. (Univ. Marburg, Fachbereich Chem., D-3550 Marburg, GFR): Thermische Umlagerungen von 1-allyloxy- und 1-Propargyloxy- $\lambda^5$ -phosphorin-Derivaten. *Chem. Ber.* 114 (1981) 1752
- DOIGO, A. C., MARTINS, A. F. (Inst. Nacl. Invest. Cientific, Ctr. Fis. Mat. Condensada, Av. Gama Pinto 2, P-1699 Lisboa, Portugal): Thermal behaviour of the twist viscosity in a series of homologous nematic liquid crystals. *Mol. Cryst. Liquid Cryst.* 66 (1981) 453
- DIXON, G. S. (Oklahoma State Univ., Dept. Phys., Stillwater, Okla., 74078 USA): Magnetic dipole scattering of phonons and the thermal conductivity of  $\text{GdCl}_3$ . *J. Phys. C* 14 (1981) 2147
- FALCIONI, M., MARINARI, E., PACIELLO, M. L., PARISI, G., TAGLIENTI, B. (Natl. Inst. Nucl. Phys., Rome, Italy): Complex singularities in the specific heat of the  $\text{SU}(2)$  lattice Gauge model. *Phys. Lett. B* 102 (1981) 270
- FANELLI, E., POETI, G., BRAGHETTI, M. (Univ. Camerino, Ist. Chim., I-62032 Camerino, Italy): Homologous 4-acetyl-4'-N-alkanoyloxy azobenzenes. Calorimetry. *Mol. Cryst. Liquid Cryst.* 64 (1981) 199
- FARBER, M., SRIVASTAVA, R. D. (Space Sci. Inc., Monrovia, Calif., 91016 USA): Mass spectrometric studies of the thermal decomposition of 1,3,5,7-tetranitro-1,3,5,7-tetraazacyclooctane (HMX). *Chem. Phys. Lett.* 80 (1981) 345
- FARNG, L. P. O., KICE, J. L. (c/o J. L. Kice, Texas Tech. Univ., Dept. Chem., Lubbock, Tex., 79409 USA): Thermal decomposition of benzyl  $\alpha$ -disulfone: the question of rate-determining homolysis of more than one bond in the thermal decomposition of an  $\alpha$ -disulfone. *J. Org. Chem.* 46 (1981) 2599
- FAULKNER, J. S., STOCKS, G. M. (Oak Ridge Natl. Lab., Div. Met. and Ceram., Oak Ridge, Tenn., 37830 USA): Theory of the specific-heat coefficient of a Hume-Rothery alloy. *Phys. Rev. B* 23 (1981) 5628
- FERNELIUS, N. C., DEMPSEY, D. V., QUINN, D. B. (Univ. Dayton, Res. Inst. Dayton, Ohio, 45469 USA): Photoacoustic and laser rate calorimetry studies of the bulk and surface optical absorption coefficients of laser window materials. *Appl. Surface Sci.* 7 (1981) 32
- FERRÃO, M. L. C. C. H., RIBERIO DA SILVA, M. A. V., SURADI, S., PILCHER, G., SKINNER, H. A. (Univ. Porto, Fac. Ciencias, Dept. Quim., P-4000 Porto, Portugal): Enthalpies of combustion of four methyl-substituted heptane-3,5-diones and benzoylacetone. *J. Chem. Thermodyn.* 13 (1981) 567
- FILIPPOV, V. K., SOKOLOV, V. A. (A. A. Zhdanov State Univ., Leningrad, B-164 USSR): Isochoric heat capacity of heterogeneous systems. *Dokl. Akad. Nauk SSSR* 258 (1981) 949 (in Russian)
- FILIPPOVA, L. M., ZEBREVA, A. I., ZHUMAKANOV, V. Z. (S. M. Kirov State Univ., Alma Ata, KaSSR): Studies of complex lithium-containing amalgams by the method of interrupted thermometric titration. *Ukr. Khim. Zh.* 47 (1981) 473 (in Russian)
- FITZNER, K. (Polish Acad. Sci. Inst. Met. Res., PL-30060 Kraków, Poland): Interaction between oxygen and tin dissolved in liquid copper. *Thermochim. Acta* 46 (1981) 131
- FRIDLENDER, B. A., ORDAN'YAN, S. S., NESHPOR, V. S., SAVEL'EV, G. A. (Lensovet Technol. Inst., Leningrad, USSR): Thermal conductivity and thermal diffusivity of materials of the  $\text{Tic}-\text{TiB}_2$  system at high

- temperatures. *High Temp. transl. Teplofiz. Vysok. Temp.* 18 (1980) 761
- FROLOVA, G. I., REZNIK, L. E., PAUKOV, I. E. (Acad. Sci. USSR, Inst. Inorgan. Chem., Novosibirsk, 630090 USSR): Crystal field effect on the specific heat and spectra of  $\text{KEr}(\text{MoO}_4)_2$ . *Fiz. Tverd. Tela* 23 (1981) 2160 (in Russian)
- GADAVELOV, A. P., MATEVA, R. P., KABAIVANOV, V. S. (Grad. Chem. Technol. Inst., BU-1156 Sofia, Bulgaria): Electronic scale for investigating the thermooxidizing and thermal destruction of polymers. *Dokl. Bulg. Akad. Nauk* 34 (1981) 63 (in Bulgarian)
- GADAVELOV, A. P., MATEVA, R. P., KABAIVANOV, V. S. (Grad. Chem. Technol. Inst., BU-1156 Sofia, Bulgaria): Possible study of thermal and thermooxidizing polymer destruction with EW-1 electron scale. *Dokl. Bulg. Akad. Nauk* 34 (1981) 197 (in Bulgarian)
- GALLAGHER, P. K., ABRAHAMS, S. C., WOOD, D. L., SCHREY, F., LIMINGA, R. (Bell Tel. Labs. Inc., Murray Hill, N. J., 07974 USA): Phase transition at 350 K and dehydration of barium nitrite monohydrate. *J. Chem. Phys.* 75 (1981) 1903
- GANGULY, S., FERNANDES, J. R., RAO, C. N. R. (c/o C. N. R. Rao, Indian Inst. Sci., Solid State and Struct. Chem. Unit., Bangalore 560012, India): Calorimetric, infrared and ESR studies of the plastically crystalline state of organic compounds. *Adv. Mol. Rel. Inter. Process.* 20 (1981) 149
- GAPONOVA, A. I., OSIPCHIK, V. S., KAZAKOVA, V. V., KOTRELEV, G. V. (D. I. Mendeleev Chem. Technol. Inst., Dept. Plast Proc. and Applicat. Technol., Moscow, USSR): Thermal destruction of oligocyclosilazanes. *Izv. Vyssh. Uch. Zav.* 24 (1981) 495 (in Russian)
- GARCIA, J. O., SAAVEDRA, J. O. (Escuela Tecn. Super Ingenieros Ind., Dept. Tecnol. Quim., Las Palmas, Spain): Heat capacities of water-N-propanol mixtures. *An. Quim.* 77 (1981) 161
- GAROCHE, P. (Inst. Sci. Informat., Univ. City Sci. Ctr., 3501 Market St. Philadelphia, Pa., 19104 USA): An accurate determination of the excess low temperature heat capacity of a superconducting metallic glass. *Solid State Commun.* 39 (1981) 403
- GASPARINI, F. M., CHEN, T., BHATTACHARYYA, B. (SUNY Buffalo, Dept. Phys. and Astron., Amherst, N. Y., 14260 USA): Corrections to scaling and surface heat of confined helium. *Phys. Rev. B* 23 (1981) 5797
- GAUR, U., SHU, H. C., MEHTA, A., WUNDERLICH, B. (Rensselaer Polytech. Inst., Dept. Chem., Troy, N. Y., 12181 USA): Heat capacity and other thermodynamic properties of linear macromolecules. I. Selenium. *J. Phys. Chem. Ref. Data* 10 (1981) 89
- GAUR, U., WUNDERLICH, B. (Rensselaer Polytech. Inst., Dept. Chem., Troy, N. Y., 12181 USA): Heat capacity and other thermodynamic properties of linear macromolecules. II. Polyethylene. *J. Phys. Chem. Ref. Data* 10 (1981) 119
- GAVANDE, A. M., RAY, M. N. (c/o M. N. Ray, Nagpur Univ., Dept. Chem., Nagpur, 440010 Maharashtra, India): Effect of gamma-irradiation on kinetics of thermal decomposition of calcium bromate. *Indian J. Chem.* 20A (1981) 326
- GEDDE, U. W., EKLUND, S., JANSSON, J. E. (Royal Inst. Technol., Dept. Polymer Technol., S-10044 Stockholm, 70 Sweden): A DSC study of oriented samples of a blend of linear and branched polyethylene. *Polym. Bull.* 4 (1981) 717
- GEDDE, U. W., TERSELJUS, B., JANSSON, J. F. (Royal Inst. Technol., Dept. Polymer Technol., S-10044 Stockholm, 70 Sweden): A new method for the detection of thermal oxidation in polyethylene pipes. *Polym. Test* 2 (1981) 85
- GIUFFRÈ, L., TEMPEsti, E., MONTONERI, E., BERETTA, M. A., FINELLI, F. (c/o E. Tempesti, Politecn. Milano, Ist. Chim. Ind., Leonardo da Vinci 32, I-20133 Milano, Italy): Thermal rearrangement of cupric benzoate to phenyl benzoate and phenol via *O*-benzoyloxybenzoic acid. *Gazz. Chim. Ital.* 111 (1981) 227
- GLUGLA, M., SEVERIN, H. G., SICKING, G. (Univ. Münster, Inst. Phys. Chem., D-4400 Münster, GFR): Low-temperature heat capacities of Pd-Al alloys at low Al contents. *Phys. Status Solidi B* 106 (1981) 505
- GOLUB, A. A., SVATKO, S. V. (Acad. Sci. UkrSSR, Inst. Chem., Kiev, UkrSSR): Effects of thermal shocks on thermal conductivity of Hcp He<sub>4</sub>. *Fiz. Nizk. Temp.* (1981) 413 (in Russian)

- GONCHARUK, V. V., PANKRATIEV, Y. D., SHCHERBATYUK, N. E. (Acad. Sci. UkrSSR, Inst. Colloid Chem. and Water Chem., Kiev, UkrSSR): Calorimetric studies of aluminosilicate catalysts. Heats and entropies of cumene adsorption on cation substituted metakaolinite. *React. Kinet. Catal. Lett.* 16 (1981) 69
- GOTO, T., HAYASHI, S., HIRAI, T. (Tohoku Univ., Iron Steel and Other Met. Res. Inst., Sendai, Miyagi, 980 Japan): Thermal properties of amorphous  $\text{Si}_3\text{N}_4$  - C composites prepared by chemical vapor deposition. *Sci. Rep. Res. Inst. Tohoku U. A.*, 29 (1981) 176
- GOTTHARDT, H., REITER, F., KROMER, C. (Univ. Wuppertal, Gesamthsch., Lehrstuhl Organ. Chem., Fachbereich 9, Gauss str. 20, D-5600 Wuppertal 1, GFR): Synthese, thermische und photochemische Reaktionen neuer mesoionischer 1, 3, 2-Oxathiazolone. *Liebigs Ann. Chem.* (1981) 1025
- GRACHEV, S. V., BITYUKOV, S. M., PEREBOVA, A. A. (S. M. Kirov Polytech. Inst., Sverdlovsk, USSR): Thermal stability of corrosion-resistant spring steels. *Metal Sci. Heat Treat.* transl. *Metall. Term. Obr. Met.* 22 (1980) 761
- GRASSIE, N., JOHNSTON, A., SCOTNEY, A. (Univ. Glasgow, Dept. Chem., Glasgow G12 8QQ, Scotland): Thermal degradation of bromine-containing polymers. I. Poly(2-bromoethyl methacrylate). *Eur. Polym. J.* 17 (1981) 589
- GRASSO, D., GANDOLFO, C., ABATE, L., BUEMI, G., FASONE, S. (Univ. Catania, Ist. Dipartimentale Chim. e Chim. Ind., Viale A. Doria 8, I-95125 Catania, Italy): Transition entropies and mesomorphic behaviour of *p*-*n*-alkoxy-benzylidene-*p'*-ethoxyanilines. *Thermochim. Acta* 46 (1981) 71
- HALES, P. W., PASS, G. (Univ. Salford, Dept. Chem. and Appl. Chem., Salford, M5 4WT Lancashire, England): The effect of temperature on the enthalpy of dilution of polyelectrolyte solutions. *Eur. Polym. J.* 17 (1981) 657
- HALES, P. W., PASS, G. Univ. Salford, Dept. Chem. and Appl. Chem., Salford, M5 4WT Lancashire, England): Effect of cation size on the enthalpy of dilution of alkali-metal salts of carboxymethylcellulose. *J. Chem. Soc. Faraday Trans. I*, 77 (1981) 2009
- HANAFI, Z. M., KHILLA, M. A., ASKAR, M. H. (Nat'l. Res. Ctr., Dokki, Cairo, Egypt.): The thermal decomposition of ammonium heptamolybdate. *Thermochim. Acta* 45 (1981) 221
- HANLEY, J. M., PEACOCK, T. E. (Univ. Queensland, Dept. Chem., St. Lucia, QLD 4067 Australia): Order-disorder transformations in alloys. The inclusion of non-nearest neighbour interactions in cluster variation methods. I. Critical temperature and high temperature specific heats for body centred cubic lattices. *Aust. J. Phys.* 34 (1981) 61
- HANLEY, J. M., PEACOCK, T. E. (Univ. Queensland Dept. Chem., St. Lucia, QLD 4067 Australia): Order-disorder transformations in alloys. The inclusion of non-nearest neighbour interactions in cluster variation methods. II. Low temperature specific heats for body centred cubic lattices. *Aust. J. Phys.* 34 (1981) 75
- HARA, J. (Yamaguchi Univ., Dept. Phys., Ube, Yamaguchi, 755 Japan): Diffusive thermal conductivity of superfluid  $^3\text{He}$  - B. *J. Low Temp. Phys.* 43 (1981) 533
- HART, S., RICHTER, P. W., CLARK, J. B., RAPOPORT, E. (CSIR, Natl. Phys. Res. Lab., POB 395, Pretoria, 0001 South Africa): Phase transitions in  $\text{CsH}_2\text{AsO}_4$  at high pressures and temperatures. *J. Solid State Chem.* 37 (1981) 302
- HASEGAWA, M., YURUGI, T., NAMIKI, S., SHIOBARA, T., NAKANISHI, H., NAKANISHI, F. (Univ. Tokyo, Fac. Engn., Bunkyo-ku, Tokyo, 113 Japan): Preparation and thermal behavior of poly-*p*-phenylene diacrylic acid dimethyl ester. *J. Polym. Sci. Polym. Chem. Ed.* 19 (1981) 1291
- HASEN, A. K., DUBEY, K. S. (Univ. Basrah, Coll. Sci., Dept. Phys., Basrah, Iraq): Lattice thermal conductivity of polyvinyl acetate at low temperatures. *Solid State Commun.* 38 (1981) 1185
- HENEGHAN, S. P., KNOOT, P. A., BENSON, S. W. (Univ. So. Calif., Inst. Hydrocarbon Res., Dept. Chem., Los Angeles, Calif., 90007 USA): The temperature coefficient of the rates in the system  $\text{Cl} + \text{CH}_4 \rightleftharpoons \text{CH}_3 + + \text{HCl}$ . Thermochemistry of the methyl radical. *Int. J. Chem. Kinet.* 13 (1981) 677

- HERITIER, M., LEDERER, P., MONTAMBAUX, G. (Univ. Paris, 11 Phys. Solides Lab., F-91405 Orsay, France): Comments on low-temperature thermal conductivity of bcc<sup>3</sup>He. *Phys. Rev. B* 24 (1981) 1592
- HERLEY, P. J., CHRISTOFFERSON, O. (SUNY Stony Brook, Dept. Mat. Sci. and Engn., Stony Brook, Long Island, N. Y., 11794 USA): Decomposition of  $\alpha$ -aluminium hydride powder. 2. Photolytic decomposition. *J. Phys. Chem.* 85 (1981) 1882
- HERLEY, P. J., CHRISTOFFERSON, O. (SUNY Stony Brook, Dept. Mat. Sci. and Engn., Stony Brook, Long Island N. Y., 11794 USA): Decomposition of  $\alpha$ -aluminium hydride powder. 3. Simultaneous photolytic-thermal decomposition. *J. Phys. Chem.* 85 (1981) 1887
- HERLEY, P. J., CHRISTOFFERSON, O., IRWIN, R. (SUNY Stony Brook, Dept. Mat. Sci. and Engn., Stony Brook, Long Island N. Y., 11794 USA): Decomposition of  $\alpha$ -aluminium hydride powder. 1. Thermal decomposition. *J. Phys. Chem.* 85 (1981) 1874
- HERREROS, J., TELLO, M. J., BOCANEGRAS, E. H. (Univ. Basque Country, Fac. Sci., Dept. Phys., Bilbao, Spain): A thermogravimetric study of the  $(\text{CnH}_{2n+1}\text{NH}_3)_2 \text{MCl}_2\text{Br}_2$  compounds with  $10 < n < 18$  and  $M = \text{Cd}, \text{Cu}$  and  $\text{Zn}$ . *Thermochim. Acta* 46 (1981) 315
- HEUVELSLAND, W. J. M., DE VISSER, C., SOMSEN, G. (c/o G. Somsen, Free Univ., Dept. Chem., 1081 HV Amsterdam, Netherlands): Enthalpic pair-interaction coefficients between electrolytes and non-electrolytes in water and *NN*-dimethylformamide. *J. Chem. Soc. Faraday Trans. I*, 77 (1981) 1191
- HEYDTMANN, H., KÖRBITZER, B. (Univ. Frankfurt, Inst. Phys. and Theoret. Chem. D-6000 Frankfurt, 70 GFR): The thermal decomposition of 1,1-dichlorocyclopropane. *Z. Phys. Chem.* 125 (1981) 255
- HINODE, H., WAKIHARA, M., TANIGUCHI, M. (Tokyo Inst. Technol., Dept. Chem. Engn., Tokyo, 152 Japan): Equilibrium study and partial molar enthalpies of sulphur in compounds in the Fe—Nb—S system. *J. Less-Common Metals* 80 (1981) 51
- HOH, K., SAITO, M., MIURA, Y. (Electro-tech. Lab., 1-1-4 Umezono, Sakura, Nihari-gun, Ibaraki 305, Japan): The effect of heat-treatments on the chemical state of phosphorus in  $\text{SiO}_2$ . *J. Electrochem. Soc.* 128 (1981) 1613
- HOLM, T. (Tech. Univ. Denmark, Dept. Organ. Chem., DK-2800 Lyngby, Denmark): Enthalpies of formation of deuterium bromide and benzene-d<sub>1</sub>. *Thermochim. Acta* 46 (1981) 323
- HORIUCHI, H., ONSHITA, T. (Ehime Univ., Fac. Sci., Dept. Chem., Matsuyama, Ehime, 790 Japan): Heat of mixing of poly(vinyl alcohol) and poly(methacrylic acid) in aqueous solution. *Kobunshi Ronbunshu (Jap. Polym. Sci. Techn.)* 38 (1981) 407
- HORVÁTH, I., MEZENTSEVA, L. P., FIGUSCH, V. (Slovak Acad. Sci., Inst. Inorgan. Chem., CS-80934 Bratislava, Czechoslovakia): Dehydration of  $\text{GdPO}_4 \cdot x \text{H}_2\text{O}$ . *Chem. Zvesti* 35 (1981) 333
- HOSHI, M., OMOTANI, T., NAGASHIMA, A. (Keio Univ., Yokohama, Kanagawa, 223 Japan): Transient method to measure the thermal conductivity of high-temperature melts using a liquid-metal probe. *Rev. Sci. Instr.* 52 (1981) 755
- HOSHINO, Y., UTSUNOMIYA, T., ABE, O. (Tokyo Inst. Technol. Engr. Mat. Res. Lab., Midori-ku, Yokohama, Kanagawa, 227 Japan): The thermal decomposition of sodium nitrate and the effects of several oxides on the decomposition. *Bull. Chem. Soc. Jap.* 54 (1981) 1385
- HOUSE, J. E. (Illinois State Univ., Dept. Chem., Normal, Ill., 61761 USA): Thermal studies on oxalate complexes. IV. Potassium bis(oxalato)cuprate(II) dihydrate. *Thermochim. Acta* 47 (1981) 71
- HOUSE, J. E., DUNLAP, D. D. (Illinois State Univ., Dept. Chem., Normal, Ill., 61761 USA): Thermal decomposition of an unusual complex of copper sulfate with acetamide. *Thermochim. Acta* 47 (1981) 113
- HOUSE, J. E., RIPPON, C. S. (Illinois State Univ., Dept. Chem., Normal, Ill., 61761 USA): A TG study of the decomposition of ammonium fluoride and ammonium bifluoride. *Thermochim. Acta* 47 (1981) 213
- HUFFMANN, G. P., HUGGINS, F. E., DUNMYRE, G. R. (US Steel Corp., Res. Lab., Monroeville, Pa., 15146 USA): Investigation of the high-temperature behaviour of coal ash in reducing and oxidizing atmospheres. *Fuel* 60 (1981) 585

- INOUE, A., TAKAHASHI, Y., MASUMOTO, T. (Tohoku Univ., Iron Steel and Other Met. Res. Inst., Sendai, Miyagi, 980 Japan): Formation range, mechanical properties and thermal stability of superconducting Zr-Si amorphous alloys. *Sci. Rep. Res. Inst. Tohoku U. A* 29 (1981) 296
- ISAC, D., MRACEC, M., PROSTEANU, N., SIMON, Z. (ICECHIM CCMP, Chem. Res. Lab. Solventul Timisoara, Spl. N. Titulescu 31, R-1900 Timisoara, Romania): The kinetics of thermal and photochemical decomposition of aromatic diazonium salts. *Rev. Roum. Chim.* 26 (1981) 29
- IVANOVA, E. F., KERN, A. P., DOLGOPOL, I. V. (A. M. Gorkii State Univ., Kharkov, UkrSSR): Thermochemistry of sodium nitrate dissolution in water and water-ethylenediamine mixtures at 25°C. *Zh. Fiz. Khim.* 55 (1981) 1603 (in Russian)
- IVANOVA, S. V., LUKIN, S. N., TELEPA, V. T. (Acad. Sci. UkrSSR, Inst. Engn. Phys., Donetsk, UkrSSR): Elastic parameter temperature dependence of antiferromagnetic  $\text{CuCl}_2 \cdot 2 \text{H}_2\text{O}$ ,  $\text{CsCuCl}_3$  single crystals. *Fiz. Tverd. Tela* 23 (1981) 1173 (in Russian)
- IVLIEV, A. D., ZINOV'EV, V. E. (S. M. Kirov Polytech. Inst., Sverdlovsk, USSR): High-temperature phase transition in Nd and Pr. *Fiz. Tverd. Tela* 23 (1981) 190 (in Russian)
- JOHNSON, G. K., STEELE, W. V. (Argonne Natl. Lab., Div. Chem. Engn., Argonne, Ill., 60439 USA): The standard enthalpy of formation of uranium dioxide by fluorine bomb calorimetry. *J. Chem. Thermodyn.* 13 (1981) 717
- JOLICOEUR, C., DUCHESNE, D. (Univ. Sherbrooke, Ctr. Applicat. Calorimetrie et Thermodynam., Dept. Chim., Sherbrooke, Quebec, JIK 2R1 Canada): Infrared and thermogravimetric studies of the thermal degradation of chrysotile asbestos fibers: evidence for matrix effects. *Can. J. Chem.* 59 (1981) 1521
- KADOGAWA, Y., YAMATE, T. (Kansai Univ., Fac. Engn., Suita, Osaka, 564 Japan): Thermogravimetric analysis of binary mixtures of potassium nitrate and calcium nitrate. *Denki Kagaku, Electrochem. Soc. Jap.* 49 (1981) 359
- KAGAN, V. D. (A. F. Ioffe Engn. Phys. Inst., Leningrad, USSR): Sound attenuation and thermoconductivity in solid solutions. *Fiz. Tverd. Tela* 23 (1981) 1551 (in Russian)
- KAGANYUK, D. S.: Calculation of enthalpies of aqua-cation formations. *Zh. Fiz. Khim.* 55 (1981) 1860 (in Russian)
- KAWAIZUMI, F., KUSHIDA, S., MIYAHARA, Y. (Nagoya Univ., Fac. Sci., Dept. Chem., Chikusa-ku, Nagoya, 464 Japan): Determination of the specific heat capacities of aqueous solutions of pentose. *Bull. Chem. Soc. Jap.* 54 (1981) 2282
- KAWAIZUMI, F., NISHIO, N., NOMURA, H., MIYAHARA, Y. (Nagoya Univ., Fac. Engn., Dept. Chem. Engn., Chikusa-ku, Nagoya, 464 Japan): Calorimetric and compressibility study of aqueous solutions of dextran with special reference to hydration and structural change of water. *Polym. J.* 13 (1981) 209
- KEINATH, S. E., BOYER, R. F. (Michigan Molec. Inst., 1910 West St. Andrews Rd., Midland, Mich., 48640 USA): Thermo-mechanical analysis of  $T_g$  and  $T > T_g$  transitions in polystyrene. *J. Appl. Polym. Sci.* 26 (1981) 2077
- KELEN, T., IVÁN, B., NAGY, T. T., TURCSÁNYI, B., TÜDÖS, F., KENNEDY, J. P. (Hung. Acad. Sci., Cent. Res. Inst. Chem., H-1025 Budapest, Hungary): Reversible crosslinking during the thermal degradation of PVC. *Magy. Kém. Foly.* 87 (1981) 97 (in Hungarian)
- KELHAM, S., ROSENBERG, H. M. (Blue Circle Ind. Div. Res., Greenhithe, Kent, England): The thermal conductivity and specific heat of epoxy-resin from 0.1–80 K. *J. Phys. C* 14 (1981) 1737
- KNIKO, V. M., GROMOVA, V. V., PROSKURYAKOV, V. A.: Study of the composition of products of thermal decomposition of neopentyl glycol ester by chromatography in conjunction with mass spectrometry. *J. Appl. Chem. USSR transl. Zh. Prikl. Khim.* 53 (1980) 1904
- KIM, K. Y., JOHNSON, G. K., O'HARE, P. A. G., PHILLIPS, B. A. (c/o P. A. G. O'Hare, Argonne Natl. Lab., Div. Chem. Engn., Argonne, Ill., 60439 USA): The standard enthalpy of formation at 298.15 K of  $\text{Cs}_4\text{CrO}_4$ . *J. Chem. Thermodyn.* 13 (1981) 695
- KIMURA, F., BENSON, G. C. (c/o G. C. Benson, Natl. Res. Council Canada, Div. Chem., Ottawa, Ontario, K1A 0R6 Canada): Excess enthalpies of binary mixtures

- of 1-hexanol with hexane isomers at 298.15 K. *J. Chem. Eng. Data* 26 (1981) 317
- KING, K. D., GODDARD, R. D. (Univ. Adelaide, Dept. Chem. Engn., Adelaide, SA 5001 Australia): Kinetics and mechanism of the thermal decomposition of cyclopentyl cyanide. *Int. J. Chem. Kinet.* 13 (1981) 755
- KISUNKO, V. Z., NOVOKHvatSKIY, I. A., POGORELOV, A. I., LADYANOV, V. I., BYCHKOV, Y. B.: Rapid thermal modification of aluminium melts. *Russ. Metal. transl. Izv. Akad. Nauk SSSR Metal* (1980) 111
- Ko, S. B., KIM, W. K. (Jeonbug Natl. Univ., Dept. Chem. Educ., Jeonju 520, South Korea): The vacancies-in-solid model applied to sublimation pressure, enthalpies and entropies of sublimation, and enthalpies and entropies of solid krypton and xenon. *Bull. Kor. Chem. Soc.* 2 (1981) 17
- KORSTAD, P., LILLEUD, K. P. (Univ. Oslo, Dept. Chem., Oslo, Norway): On high temperature oxidation of chromium. I. Oxidation of annealed, thermally etched chromium at 800 °C—1100 °C 2. Properties of Cr<sub>2</sub>O<sub>3</sub> and the oxidation mechanism of chromium. *J. Electrochem. Soc.* 128 (1981) 1389
- KOKKONEN, P. (Univ. Oulu, Dept. Chem., SF-90570 Oulu 57, Finland): Thermodynamic properties of binary and ternary systems. Vapour pressures and heats of mixing in DMSO + triethylamine + mesitylene mixtures. *Finn. Chem. Lett.* (1981) 1
- KOLESNIK, V. V., ZHIROV, A. I., DUNAEVA, K. M., NIKULIN, N. P., ALEKSANDROV, V. V., SPITSYN, V. I.: The synthesis and thermal behavior of formamide complex of dioxouranium(VI) formate. *Zh. Neorg. Khim.* 26 (1981) 1324 (in Russian)
- KOLESOV, V. P., ERASTOV, P. A., BONDARENKO, K. K. (M. V. Lomonosov State Univ., Moscow, 117234 USSR): Standard enthalpies of formation of some organohalide ethers. *Zh. Fiz. Khim.* 55 (1981) 1429 (in Russian)
- KUKUSHKIN, Y. N., BLYUMENTAL, T. O., BELYAEV, A. N. (Lensovet Technol. Inst., Leningrad, USSR): Thermal conversions of platinum(II) complexes with nicotinic acid. *Zh. Neorg. Khim.* 26 (1981) 1297 (in Russian)
- KULKARNI, M. G., MASHELKAR, R. A. (Natl. Chem. Lab., Dept. Chem. Engn. Pune, 411880 India): Thermal conductivity of polymers: A new correlation. *Polymer* 22 (1981) 867
- KUMAR, S., KAUSHIK, N. K. (c/o N. K. Kaushik, Univ. Delhi, Dept. Chem., Delhi, 110007 India): Synthesis, characterization and thermal studies on Ru(III), Rh(III), Ir(III), Pd(II), Pt(II) and Os(IV) dithiocarbamates. *Indian J. Chem. A* 20 (1981) 512
- KUS, F. W. (McMaster Univ., Academ. Comp. Serv., Hamilton, Ontario, Canada, L8S 4K1): The electronic thermal conductivity of lead and its dilute alloys in the normal and superconducting states. *J. Phys. F*, 11 (1981) 1879
- KUZNETSOV, N. T., KULIKOVA, L. N. (N. S. Kurnakov Gen. and Inorgan. Chem. Inst., Moscow, USSR): Thermal properties of halogen-substituted chloro-dodecaborates. *Inorg. Mater. transl. Izv. Akad. Nauk SSSR Neorg. Mater.* 16 (1980) 958
- LEBEDEVA, N. D., KATIN, Y. A., RYADENKO, V. L., STEPANOV, V. B., KOZLZVA, N. M.: Thermochemical investigation of diformylhydrazine. *J. Appl. Chem. USSR transl. Zh. Prikl. Khim.* 53 (1980) 1942
- LEBEDEVA, N. D., MASALITINOVA, T. N., RYADENKO, V. L., MON'YAKOVA, O. N. (Moscow Appl. Chem. Inst., Moscow, USSR): Enthalpies of combustion and formation of alkyl-substituted hydrazone. (Moscow Appl. Chem. Inst., Moscow, USSR): Enthalpies of combustion and formation of alkyl-substituted hydrazone. *J. Appl. Chem. USSR transl. Zh. Prikl. Khim.* 53 (1980) 1800
- LEGRANGE, J. D., MOCHEL, J. M. (Weizmann Inst. Sci., Dept. Membrane Res., Rehovot, 76100 Israel): High-resolution heat-capacity studies near the nematic-smectic-A transition. *Phys. Rev. A* 23 (1981) 3215
- LEVDAKSHI, V. A., GORNOSTAEV, L. M. (Krasnoyarsk State Teachers Inst., Dept. Chem., Krasnoyarsk, USSR): Kinetics of thermal conversions of 1-azido-2-phenylthioanthraquinone and 3-phenylthioanthra (1,9 CD)-isoxazolin-6-one. *Izv. Vyssh. Uch. Zav.* 24 (1981) 277 (in Russian)
- LIELMEZS, J., NG T. K. C. (Univ. British Columbia, Dept. Chem., Engn., Vancouver, B.C., VGT 1W5 Canada): Thermodynamic functions for n-halogenated hydrocarbons. *Thermochim. Acta* 47 (1981) 37

- LIETZKE, M. H., MULLINS, C. (Univ. Tennessee, Dept. Chem., Knoxville, Tenn., 37916 USA): The thermal decomposition of carbon dioxide. *J. Inorg. Nucl. Chem.* 43 (1981) 1769
- LISITSKII, V. V., KALASHNIKOV, V. G., BIRYUKOV, V. P., MUSIKHIN, V. A., MINSKER, K. S. (Bashkir State Univ., Ufa, USSR): The relation between chemical structure and thermal stability of emulsion PVC. *Vysokomol. Soedin. A* 23 (1981) 1081 (in Russian)
- LOCATELLI, M., NUÑEZ-QUEIRO, M. (CEN, Cryophys. Lab., Basses Temp. Serv., F-38041 Grenoble, France): A method of measuring the thermal conductivity of very small samples at low temperature. *J. Phys. D* 14 (1981) 763
- LÖFFLER, H., KORNGIEBEL, E., GERLACH, R. (Pedagog. Hsch. Sekt. Math. Phys., DDR-402 Halle, GDR): On the decomposition behaviour of supersaturated Al-Zn-Mg alloys in dependence on heat treatment. *Cyst. Res. Techn.* 16 (1981) 475
- LÓPEZ ECHARRI, A., TELLO, M. J., JUBINDO, M. A. P. (Univ. País Vasco, Fac. Ciencias, Dept. Física, Apdo. 644, Bilbao, Spain): Specific heat behaviour of the ferroelectric PbHPO<sub>4</sub>. *Solid State Commun.* 38 (1981) 383
- LOSSING, F. P., LAM, Y. T., MACCOLL, A. (Univ. Ottawa, Dept. Chem., Ottawa, Ontario, K1N 6N5 Canada): Gas phase heats of formation of alkyl ammonium ions. *Can. J. Chem.* 59 (1981) 2228
- LOURDUDOSS, S., SCHULER, T., RALDOW, W. (c/o W. Radow, Royal Inst. Technol., Dept. Phys. Chem., S-10044 Stockholm 70, Sweden): Determination of the heat capacity of calcium chloride octa- and tetraammines. *Inorg. Chim. Acta Lett.* 54 (1981) L31
- LOW, N. M. P. (Concordia Univ., Ctr. Bldg. Studies, Montreal, Quebec, H3G 1M8 Canada): The thermal conductivity and linear expansion of phlogopite mica-soda lime glass composites. *Rev. Int. Hautes Temp. Refract.* 18 (1981) 69
- MAGRI, A. L., MAGRI, A. D., BAlestrieri, F., CARDARELLI, E., DASCENZO, G., PANZANELLI, A. (Univ. Sassari, Ist. Chim. Anal. e Spettroscopia, I-07100 Sassari, Italy): Thermal and spectroscopic properties of 2,3-pyrazinedicarboxylic acid-bivalent metallic ion complexes. *Chim. Ind.* 63 (1981) 281
- MAKAROV, A. A., MGELADZE, G. N., MONASELIDZE, D. R., ESPOVA, N. G. (Acad. Sci. USSR, Inst. Molec. Biol., Moscow, 117984 USSR): Manifestation of intraglobular dynamics at microcalorimetry of leghemoglobin crystals. *J. Polym. Sci. Polym. Symp. Ed.* 69 (1981) 101
- MAURYA, J. R. (Govt. Postgrad. Coll., Chammoli, Uttar Pradesh, India): Phonon spectra and thermal capacity of anisotropic zinc crystal. *Indian J. Pure Appl. Phys.* 19 (1981) 488
- MAZGHOUNI, M., KBIR-ARIGUIB, N., COUNIOUX, J. J., SEBAOUN, A. (Ecole Norm. Super Tunis, Phys. Chim. Minerale Lab., Tunis, Tunisia): Etude des équilibres solide-liquide-vapeur des systèmes bineaires K<sub>3</sub>PO<sub>4</sub>-H<sub>2</sub>O et Mg<sub>8</sub>(PO<sub>4</sub>)<sub>2</sub>-H<sub>2</sub>O. *Thermochim. Acta* 47 (1981) 125
- MAZOV, A. Y. (Khimvolokno Sci. Ind. Assoc., Leningrad, USSR): Study of the influence of the warm-up. Time on the thermal stability of heatresistant fibers. *Vysokomol. Soedin. B* 22 (1981) 345 (in Russian)
- MAZUR, P. (Rutgers State Univ., Dept. Phys., Camden, N. J., 08102 USA): Low-temperature specific heat of a thin film. *Phys. Rev. B* 23 (1981) 6503
- MCCARTHY, T. J., NUZZO, R. G., WHITESIDES, G. M. (c/o G. M. Whitesides, MIT, Dept. Chem., Cambridge, Mass., 02139 USA): Mechanism of thermal decomposition of diethyl-bis(triethylphosphine)platinum(II). *J. Amer. Chem. Soc.* 103 (1981) 3396
- MÍKA, B., PISAFÍK, S., PEKÁREK, V. (Czechoslovak Acad. Sci., Inst. Nucl. Phys., CS-25068 Rez, Czechoslovakia): Differential quasi-isothermal microcalorimeter with a digital output. III. Rotational stirring with a continuous rotation rate adjustment. *Chem. Zvesti* 35 (1981) 407
- MILSOM, J. A., PAMPLIN, B. R. (Univ. Bath, Sch. Phys., Bath, BA2 7AY Avon, England): Thermal oscillations in melts. *Progr. Cryst. Growth Charact.* 4 (1981) 195
- MINCHENKO, V. I., SMIRNOV, M. V., STEPANOV, V. P. (Acad. Sci. USSR, Ural Sci. Ct., Inst. Electrochem., Sverdlovsk, USSR): Compressibility and heat capacity of CsF-CsCl, CsF-CsBr, CsF-CsI melts. *Zh. Fiz. Khim.* 55 (1981) 1151 (in Russian)

- MINSKER, K. S., BERLIN, AL., AL., LISITSKII, V. V., PANTCHESNIKOVA, R. B., ZAVODTCHIKOVA, N. N., YANOVSKII, D. M., MONAKOV, Y. B. (Bashkir State Univ., Ufa, USSR): Features of thermal degradation of copolymers of vinyl chloride with methylacrylate. *Vysokomol. Soedin. A* 23 (1981) 1636 (in Russian)
- MORGENSTERN, I. (Univ. London Royal Holloway Coll., Dept. Math., Egham, TW20 OEX Surrey, England): Phase transition in an Ising-spinglass-model including next-nearest-neighbor-interaction. *Z. Phys. B* 42 (1981) 23
- MORI, K., KIKUCHI, I., NAKAMURA, Y. (Iwate Univ., Fac. Engn., Dept. Appl. Chem., Morioka, Iwate 020, Japan): Effects of metal stearates on the thermal stabilization of poly(vinylchloride) by 6-anilino-1,3,5-triazine-2,4-dithiol. *Kobunshi Ronbunshu (Japanese Polym. Sci. and Techn.)* 38 (1981) 393
- MORISAKI, S. (Minist. Labour, Res. Inst. Ind. Safety, 5-35-1 Shiba, Minato-ku, Tokyo, Japan): Effects of surrounding gas pressure on the decomposition of thiadiazole compounds. *Thermochim. Acta* 47 (1981) 85
- MORSS, L. R., FUGER, J. (Argonne Natl. Lab., Div. Chem., 9700 S. Cass Ave., Argonne, Ill., 60439 USA): Enthalpy of formation of americium dioxide and a thermochemical estimate of the electrode potential  $\text{Am}^{4+}/\text{Am}^{3+}$ . *J. Inorg. Nucl. Chem.* 43 (1981) 2059
- MUCHA, M. (Tech. Univ. Łódz, Inst. Polymer, PL-90539 Łódz, Poland): Some observations on the melting behavior of isotactic polypropylene crystals. *J. Polym. Sci. Polym. Symp. Ed.* 69 (1981) 79
- MULOKOZI, A. M. (Univ. Dar es Salaam, Dept. Chem., Dar es Salaam, Tanzania): An alloying theory of transition metals with p-block elements. IV. The energies of the highest occupied states in refractory carbides and nitrides. *J. Less-Common Metals* 79 (1981) 145
- MURAISHI, H. (Fukuoka Univ. Education, Dept. Chem., Fukuoka, 81141 Japan): The thermal and hydrothermal behavior of silica-adsorbed magnesium hydroxide. *Bull. Chem. Soc. Jap.* 54 (1981) 1610
- MURAKAMI, M. (IBM Corp., Thomas J. Watson Res. Ctr., Yorktown Hts., N. Y., 10598 USA): Thermal stability of Pb-alloy Josephson junction electrode materials: I. Effects of film thickness and grain size of Pb-In-Au base electrodes. *J. Appl. Phys.* 52 (1981) 1309
- MURAKAMI, M. (IBM Corp., Thomas J. Watson Res. Ctr., Yorktown Hts., N. Y., 10598 USA): Thermal stability of Pb-alloy Josephson junction electrode materials: II. Effects of SiO coating on Pb-In-Au base electrode. *J. Appl. Phys.* 52 (1981) 1320
- MUSIĆ, S., SIMMONS, G. W., LEIDHEISER, H. (Lehigh Univ., Ctr. Surface and Coatings Res., Bethlehem, Pa., 18015 USA):  $^{57}\text{Fe}$  Mössbauer spectroscopic study of the thermal decomposition of  $\text{Fe}(\text{IO}_3)_3$ . *Radiochem. Radioanal. Lett.* 48 (1981) 227
- NARASIMHAM, P. S. L., GIRIDHAR, A., MAHADEVAN, S. (Natl. Aeronaut. Lab., Div. Mat. Sci., Bangalore, 560017 Mysore, India): Heat capacities of Ge-Sb-Se glasses. *J. Non-Cryst. Solids* 43 (1981) 301
- NARUCHI, K., MARUO, T., TANAKA, S., KANEKIYO, T., YAMADA, K. (Chiba Univ., Dept. Ind. Chem., Chiba, 280 Japan): Thermal dimerization in a solid state of barium acrylate-methacrylate. *Nippon Kagaku Kaishi (J. Chem. Soc. Jap. Chem. Ind. Chem.)* (1981) 1345 (in Japanese)
- NATARAJAN, K., KARUPPANNAN, K. M., BHASKAVAN, K. A. (Perarignar Anna Univ. Technol., Ac. Coll. Technol. Madras, 600025 India): On computing reaction equilibrium constants. *Thermochim. Acta* 46 (1981) 309
- NAVARD, P., HAUDIN, J. M., DAYAN, S., SIXOU, P. (Ecole Natl. Super Mines Paris, Ctr. Mise Forme Mat., CNRS Equipe Rech. 837, F-06560 Valbonne, France): DSC study of liquid crystalline solutions of cellulose acetate in trifluoroacetic acid. *J. Polym. Sci. Polym. Lett. Ed.* 19 (1981) 379
- NAZAROV, A. S., ANTIMONOV, A. F. (Acad. Sci. USSR, Inst. Inorgan. Chem., Novosibirsk, 630090 USSR): Use of F-19 nuclear magnetic resonance method for the studies of thermal decomposition products of  $\text{C}_4\text{F}_9 \cdot x \text{ClF}_3$ -type penetration compounds. *Zh. Neorg. Khim.* 26 (1981) 1563 (in Russian)
- NIRSHA, B. M., SEREBRENNIKOVA, G. M., AVDONINA, L. M., OBOZNENO, Y. V. (All Union Chem. Reagent and Highly Pure

- Chem. Subst. Res. Inst., Moscow, USSR): Thermal behavior of rubidium trihydrodiphthalate dihydrate. *Zh. Neorg. Khim.* 26 (1981) 1411 (in Russian)
- NIRSHA, B. M., SEREBRENNIKOVA, G. M., AVDONINA, L. M., OBOZHENKO, Y. V. (All Union Chem. Reagent and Highly Pure Chem. Subst. Res. Inst., Moscow, USSR): Thermal behavior of cesium trihydrodiphthalate. *Zh. Neorg. Khim.* 26 (1981) 685 (in Russian)
- NISHIGUCHI, N., SAKUMA, T. (Hokkaido Univ., Dept. Engn. Sci., Sapporo, Hokkaido, 060 Japan): Vibrational spectrum and specific heat of fine particles. *Solid State Commun.* 38 (1981) 1073
- NIUME, K., HIROHASHI, R., TODA, F., HASEWAGA, M., IWAKURA, Y. (Univ. Tokyo, Fac. Engn., Dept. Synthet. Chem., Bunkyo-ku, Tokyo, 113 Japan): Thermal and electrical properties of polyimides containing tricyclic fused rings. *Polymer* 22 (1981) 649
- NIUME, K., TODA, F., UNO, K., HASEGAWA, M., IWAKURA, Y. (Univ. Tokyo, Fac. Engn., Dept. Synthet. Chem., Bunkyo-ku, Tokyo, 113 Japan): Novel thermostable polymers from bis o-aminophenylbenzimidazoles and aromatic tetracarboxylic dianhydrides. *J. Polym. Sci. Polym. Chem. Ed.* 18 (1981) 1745
- OGORODNIK, K. Z., KARAZHAYIEV, V. D. (Moscow Organ. Intermed. Prod. and Dye Inst., Moscow, USSR): A new crystalline modification of p-azoxyanisole. Spectral and calorimetric signs. *Kristallografiya SSSR* 26 (1981) 859 (in Russian)
- OKADA, K., OSSAKA, J. (Japan Atom Energy Res. Inst., Honkomagome 2-28-49 Tokyo, 113 Japan): Crystal data and phase transitions of  $\text{KLiWO}_4$  and  $\text{KLiMoO}_4$ . *J. Solid State Chem.* 37 (1981) 325
- O'NEAL, H. E., RING, M. A. (Calif. State Univ. San Diego, Dept. Chem., San Diego, Calif., 92182 USA): An additivity scheme for the estimation of heats of formation, entropies, and heat capacities of silanes, polysilanes, and their alkyl derivatives. *J. Org. Chem.* 213 (1981) 419
- ONN, D. G. (Univ. Delaware, Dept. Phys., Newark, Del., 19711 USA): The low temperature specific heat of amorphous alloy. *J. Appl. Phys.* 52 (1981) 1788
- ONN, D. G., SUNDERMIER, M., KRAUSE, J. K. (Univ. Delaware, Dept. Phys., Newark, Del., 19711 USA): The low temperature specific heat of the metallic glasses  $(\text{Fe}_x\text{Ni}_{80-x})\text{B}_{20}$  heat of the metallic glasses. *J. Appl. Phys.* 52 (1981) 1802
- PAL, A., BHATTACHARYYA, P. (Tata Inst. Fundamental Res., Bombay, 400005 India): Anomalous specific heat of liquid  $^3\text{He}$  above the superfluid transition temperature. *J. Low Temp. Phys.* 43 (1981) 17
- PAN, S. L. (Acad. Sinica, Inst. Geol., Beijing, Peoples R. China): The method for preparing  $\text{SO}_2$  for isotope analysis from  $\text{BaSO}_4$  by thermal decomposition. *Sci. Geol. Sinica* (1981) 184 (in Chinese)
- PANNELL, K. H., KAPOOR, R. N. (Univ. Texas, Dept. Chem., El Paso, Tex., 79968 USA): Organometalloidal derivatives of the transition metals. VII. The thermal and photochemical properties of trialkyllead derivatives of Cr, Mo and W. *J. Organometal. Chem.* 214 (1981) 47
- PANZANELLI, A., RASSU, G., CINELLU, A., SUNC, M. (Univ. Sassari, Ist. Chim. Anal. e Spettroscopia, I-07100 Sassari, Italy): Synthesis and spectroscopic and thermoanalytic characterization of Fe-III and Cr-III pyridinedicarboxylic acid complexes. *Chim. Ind.* 63 (1981) 281
- PAPINA, T. S., ERASTOV, P. A., KOLESOV, V. P. (M. V. Lomonosov State Univ., Dept. Chem., Moscow, 117234 USSR): The enthalpies of formation of 1,1,1-trifluoro-2-chloro-2-bromoethane and 1,1,2-trifluoro-2-chloro-1-bromoethane. *J. Chem. Thermodyn.* 13 (1981) 683
- PARFENTEVA, T. L. (Krasnodar Polytech. Inst., Krasnodar, USSR): Structural-kinetic effects and heat capacity of aqueous solutions of tartaric acid. *Zh. Fiz. Khim.* 55 (1981) 1710 (in Russian)
- PARKASH, R., AHLUWALIA, S. C., SUD, S. C., SAHNI, R. N., PAUL, R. C. (Panjab Univ., Dept. Chem., Chandigarh, 160014 India): Heats of solution and neutralization of Lewis acids and bases in acetic anhydride. *Monatsh. Chem.* 112 (1981) 707
- PATEL, J., PATEL, R., PATEL, V., PATEL, K. C., PATEL, R. D. (Sardar Patel Univ., Dept. Chem., Wallabh Vidyanagar, 388120 Gujarat, India): Chloranisole-1,2-dichloroethane

- resins and their thermal stability. *Angew. Makromol. Chem.* 97 (1981) 129
- PATEL, M. N., PATIL, S. H., SETTY, M. S. (Sardar Patel Univ., Dept. Chem., Vallabh Vidyanagar, 388120 Gujarat, India): Magnetic, spectral, thermal and electrical properties of polychelates. *Angew. Makromol. Chem.* 97 (1981) 69
- PEREPETCHKO, I. I., MAR'YASIN, B. Y., KRIVONOSOV, A. I. (All Union Med. Polymer Res. Inst., Moscow, USSR): Influence of stabilization of thermooxidative degradation of poly-4-methylpentene-1 on its viscoelastic properties. *Vysokomol. Soedin. A* 23 (1981) 1275 (in Russian)
- PERKAMPUS, H. H., SONDERN, CHR. (Univ. Düsseldorf, Inst. Phys. Chem., Lehrstuhl 1, D-4000 Düsseldorf, 1 GFR): Thermodynamische Untersuchungen an Menshutkin-Komplexen, II. Schmelzenthalpien und -entropien von Menshutkin-Komplexen. *Z. Naturforsch. A* 36 (1981) 362
- PÉTER, A., ÁCS, G., HORVÁTH, I., HUHN, P. (JATE, Inst. Inorg. and Anal. Chem., PF 440, H-6701, Szeged, Hungary): Decomposition of propionaldehyde initiated by the thermal decomposition of azo-ethane. *Magy. Kém. Foly.* 87 (1981) 131 (in Hungarian)
- PETRUSHEVSKII, M. S., RYSS, G. M. (Sverdlovsk State Teachers Inst., Sverdlovsk, USSR): Calculation of enthalpies of the formation of 3-component liquid alloys such as iron-yttrium silicon. *Zh. Fiz. Khim.* 55 (1981) 1665 (in Russian)
- PLEWA, J., NORWISZ, J., HAJDUK, N., ROMANSKA, M. (Silesia Tech. Univ., Inst. Non Ferrous Met., PL-44100 Gliwice, Poland): Investigation of the differentiation of kinetic models. *Thermochim. Acta* 46 (1981) 217
- PURLIS, R. P., YAKIMAVICHUS, I. A., SHIRVAITIS, A. I. (V. Kapsukas State Univ., Vilnius, LiSSR): Temperature dependence of mean-square displacements and roentgenographical characteristic temperatures of ZnS and ZnO. *Izv. Vyssh. Uch. Zav. Fiz.* (1981) 115 (in Russian)
- PYATENKO, A. T., GUSAROV, A. V., GOROKHOV, L. N. (Acad. Sci. USSR, Inst. High Temp., Moscow, V-71 USSR): Thermochemical properties of negative ions in vapor above uranium tetrafluoride. *High Temp. transl. Teplofiz. Vysok. Temp.* 18 (1980) 857
- QUIRK, R. P., McFAY, D. (Michigan Molec. Inst., 1910 W. St. Andrews Rd., Midland, Mich., 48640 USA): Solvation of polymeric organolithium compounds. Stoichiometry and heats of interaction of N,N,N',N'-tetramethylethylenediamine (TMEDA) with poly(styryl) lithium and poly(isoprenyl)-lithium. *J. Polym. Sci. Polym. Chem. Ed.* 19 (1981) 1445
- RAHMAN, A., CLAYTON, P. R., STAVELEY, L. A. K. (Natl. Nucl. Corp., Cambridge Rd., Whetstone, Leicestershire, England): The heat capacity of the layer compound methylammonium cadmium tetrachloride,  $(\text{CH}_3\text{NH}_3)_2\text{CdCl}_4$  from 2.3 K to 301 K. *J. Chem. Thermodyn.* 13 (1981) 735
- RAO, P. V., GOPALAKRISHNA, S., KAMESWARA RAO, T. V. (Andhra Univ., Dept. Appl. Phys., Guntur 522005 Andhra Pradesh, India): Stability of transition temperatures in certain irradiated araldites. *Indian J. Pure Phys.* 19 (1981) 367
- RAO, R. R., RAJPUT, A. (Indian Inst. Technol., Dept. Phys., Madras, 600036 India): Lattice dynamics and some related thermal properties of body-centred cubic metals. *Phys. Status Solidi B* 106 (1981) 393
- RAZUVAEV, G. A., VYSHINSKAIA, L. I., DROBOTENKO, V. V., LATIAEVA, V. N. (N. I. Lobachevskii State Univ., Chem. Res. Inst., Gorki, USSR): Thermal decomposition of covalent derivatives tri- and tetravalent vanadium. *Dokl. Akad. Nauk SSSR* 259 (1981) 127 (in Russian)
- REAGAN, W. J., CHESTER, A. W., KERR, G. T. (Engelhard Minerals and Chem. Corp., Div. Minerals and Chem., Menlo Park, Edison, N. J., 08817 USA): Studies of the thermal decomposition and catalytic properties of some platinum and palladium ammine zeolites. *J. Catal.* 69 (1981) 89
- REDDY, K. A., REDDY, Y. K., RAO, S. B. (c/o S. B. Rao, Sri Venkateswara Univ., Autonomous Post Grad. Ctr., Anantapur, India): pH-Metric and thermal study of the gallacetophenoneoximate complexes of some bivalent metal ions. *J. Inorg. Nucl. Chem.* 43 (1981) 1933
- ROBAUGH, D. A., BARTON, B. D., STEIN, S. E. (c/o S. E. Stein, Virginia Univ., Dept.

- Chem., Morgantown, W. Va., 26506 USA): Thermal decomposition of propyl-, iso-butyl-, and neopentylbenzene. *J. Phys. Chem.* 85 (1981) 2378
- Ross, R. G., ANDERSSON, P. (Umeå Univ., Dept. Phys., S-90187 Umeå, Sweden): Thermal conductivity, heat capacity and phase diagrams of the trichloroethanes under pressure. I. 1,1,1-trichloroethane. *Molec. Cryst. Liquid Cryst.* 69 (1981) 145
- ROY, A., GHOSH, B. P., NAG, K. (c/o K. Nag, Indian Assoc. Cultivat Sci., Dept. Inorgan. Chem., Calcutta, 700032 India): Phase transition behavior of rare earth vodates. *Thermochim. Acta* 47 (1981) 105
- ROY, B. N., APPALASAMI, S., CHATTERJI, A. K., (4700 Arlesford Rd., London SW9 9JS, England): Differential thermal analysis studies on the crystallization of strontium tungstate melts. Variation of rate constants with crystallization temperatures and cooling rates. *Cryst. Res. Techn.* 16 (1981) 329
- RÜCHARDT, C., GOLZKE, V., RANGE, G. (Univ. Freiburg, Chem. Lab., D-7800 Freiburg, GFR): Organische Peridixen, XIV. Der thermische Zerfall polycyclischer Brückenkopf-Peroxykarbonsäureester. *Chem. Ber.* 114 (1981) 2769
- RUDEE, M. L., HERNDON, J. M. (Univ. Calif. San Diego, Dept. Elect. Engn. and Comp. Sci., La Jolla, Calif., 92093 USA): Thermal history of the Abeen enstatite chondrite. II. Thermal measurements and heat flow calculations. *Meteoritics* 16 (1981) 139
- RUPPERT, I. (Univ. Bonn, Inst. Anorgan. Chem., D-5300 Bonn, 1 GFR): Fluorierte Elementorganica: Oxidative Flüssigphasen-Direktfluorierung. X. Organyloxy-fluorphosphorane: Direktsynthese durch F<sub>2</sub>-Addition an Phosphinic-, Phosphonic- sowie Phosphoricsäureester (fluoride) und Thermolyseverhalten. *Z. Anorg. Allg. Chem.* 477 (1981) 59
- SABESAN, R., NATARAJAN, M. (Natl. Coll., Dept. Phys., Tiruchirapalli, 620001 India): Excess enthalpies of binary systems by the measurement of ultrasonic velocity and free volume. *Indian J. Pure Appl. Phys.* 19 (1981) 339
- SAHAMÍ, S., WEAVER, M. J. (c/o M. J. Weaver, Michigan State Univ., Dept. Chem., E. Lansing, Mich., 48824 USA): Entropic and enthalpic contributions to the solvent dependence of the thermodynamics of transition metal redox couples. I. Couples containing aromatic ligands. *J. Electroanal. Chem.* 122 (1981) 155
- SAHAMÍ, S., WEAVER, M. J. (c/o M. J. Weaver, Michigan State Univ., Dept. Chem., E. Lansing, Mich., 48824 USA): Entropic and enthalpic contributions to the solvent dependence of the thermodynamics of transition-metal redox couples. II. Couples containing ammine and ethylene-diamine ligands. *J. Electroanal. Chem.* 122 (1981) 171
- SAID, H., CHASTEL, R., BERGMANN, C., CASTANET, R. (CNRS, Ctr. Thermodynam. et Microcalorimetrie, 26 Rue du 14e R.I.A., F-13003 Marseille, France): Thermodynamic investigation on the Al—Te alloys by differential thermal analysis and Knudsen-cell mass-spectrometry. *Z. Metallk.* 72 (1981) 360
- SAINT-PAUL, M., LASJAUNIAS, J. C. (CNRS, Ctr. Tres Basses Temp., BP 166x, F-38042 Grenoble, France): Low-temperature specific heat of neutron-irradiated crystalline quartz. *J. Phys. C* 14 (1981) L 365
- SAJÓ, I. (Res. Inst. Ferrous Metals, Fehérvári-út 130, H-1116 Budapest, Hungary): "Dithermanal" a range of computer-controlled thermometric instruments for concentration determination. *Hung. Sci. Instr.* (1981) 51/1
- SAXBY, J. D. (CSIRO, Div. Fossil Fuels, POB 136, N. Ryde, NSW 2113 Australia): Thermogravimetric analysis of oil shales. *Thermochim. Acta* 47 (1981) 121
- SAZANOV, Y. N., FEDOROV, G. N., PLISKO, E. A., NUD'GA, L. A. (Acad. Sci. USSR, Inst. Macromolec. Cpd., Moscow, V-71 USSR): Study of the thermal stability of chitin and chitosan and some its derivatives by DTA and DTG methods. *J. Appl. Chem. USSR transl. Zh. Prikl. Khim.* 53 (1980) 605
- SCHLEIMER, R. P., LICHTENSTEIN, L. M., GILLESPIE, E. (Johns Hopkins Univ., Good Samaritan Hosp., Sch. Med., Dept. Med. Div. Clin Immunol., Baltimore, Md., 21239 USA): Inhibition of basophil histamine release by anti-inflammatory steriods. *Nature* 292 (1981) 454
- SCHMIDT, G., KÖHLER, W. E., HESS, S. (c/o S. Hess, Univ. Erlangen-Nürnberg, Inst. Theoret. Phys., D-8520 Erlangen, GFR): On the kinetic theory of the Enskog fluid.

- Viscosity and viscoelasticity, heat conduction and thermal pressure. *Z. Naturforsch. A* 36 (1981) 545
- SCHMIDT-PARZEFALL, W. (Desy, D-2000 Hamburg, 52 GFR): Calorimeter read out methods. *Phys. Scr.* 23 (1981) 425
- SCHMITZ, W., SIEGEL, H., SCHÖLLNER, R. (Karl Marx Univ., Fachbereich Kristallog., Sekt Chem., DDR-703 Leipzig, GDR): Thermal decomposition of partially  $Mg^{2+}$ -exchanged forms of zeolite A investigated by DTA and X-ray high temperature methods. *Cryst. Res. Tech.* 16 (1981) 385
- SCHWENDT, P., USKERT, D. (Komenský Univ., Fac. Nat. Sci., Dept. Inorgan. Chem., CS-81631 Bratislava, Czechoslovakia): Thermal decomposition of potassium  $\mu$ -oxo- and  $\mu$ -hydroxobis(oxo-diperoxovanadate). *Chem. Zvesti* 35 (1981) 229
- SEGAL, A. (Polytech. Inst. Jassy, Dept. Chem. Technol., Splai Bahlui 71, R-6600 Jassy, Romania): Thermal conductivity of a crystal with impurities of internal degrees of freedom. *Phys. Status Solidi B* 106 (1981) 379
- SELIM, S. A., HASSAN, H. A., ABD-EL-KHALIK, M., MIKHAIL, R. S. (Ain Shams Univ., Fac. Sci., Dept. Chem., Cairo, Egypt): The effect of impregnation conditions in the surface structure of silica-supported CuO catalysts. *Thermochim. Acta* 45 (1981) 349
- SELIM, S. A., ISMAIL, M. I. (Ain Shams Univ., Fac. Sci., Dept. Chem., Cairo, Egypt): Structural changes and surface properties of thermally treated ceric oxide hydrate. *Thermochim. Acta* 47 (1981) 27
- SHRIDHAR, D. R., SASTRY, C. V. R., BANSAL, O. P., SINGH, P. P., RAO, C. S. (Indian Drugs and Pharmaceut. Ltd., Res. Ctr., Div. Chem., Hyderabad, 500037 India): Anti-inflammatory agents. 4. Synthesis and anti-inflammatory activity of 4-(5-arylisoazol-3-yl) phenylalkanoic acids and their methyl esters. *Indian J. Chem. B* 20 (1981) 401
- SILAEV, M. M., AFANAS'EV, A. M., KALYAZIN, E. P. (M. V. Lomonosov State Univ., Moscow, 117234 USSR): Chain radiation-induced thermal degradation of tert-butyl alcohol. *High Energ. Chem. transl. Khim. Vysok. Energ.* 15 (1981) 74
- SINGH, P. P., NIGAM, R. K., SINGH, K. C., SHARMA, V. K. (Maharshi Dayanand Univ., Dept. Chem., Rohtak, 124001 India): Topological aspects of the thermo-dynamics of binary mixtures of non-electrolytes. *Thermochim. Acta* 46 (1981) 175
- SIRACUSA, G., ABATE, L. (Univ. Catania, Ist. Dipartimentale Chim. e Chim. Ind., I-95125 Catania, Italy): Enthalpimetric measurements in solid-solid reactions. VIII. Study of the uranyl acetate-urea system. *Thermochim. Acta* 47 (1981) 79
- SMITH, D. R., HUST, J. G., VAN POOLEN, L. J. (Nat'l. Bur. Stand., Boulder, Colo., 80302 USA): Measurement of effective thermal conductivity of glass fibre blanket standard reference material. *Cryogenics* 21 (1981) 460
- SMOLIN, M. D., STATSENKO, V. V., STATSENKO, V. M.: Influence of thermal shocks on the resistivity and thermophysical properties of copper and platinum. *Russ. Metal. transl. Izv. Akad. Nauk SSSR Metal.* (1980) 40
- SOBOLEVA, N. S., LESHCHENKO, S. S., KARPOV, V. L. (L. Y. Karpov Physicochem. Res. Inst., Moscow, USSR): Formation of radiolysis products that increase the thermal oxidation stability of irradiated polymers. *High Energy Chem. transl. Khim. Vysok. Energ.* 14 (1980) 396
- SONOIKE, S., AKIYAMA, N., FUKUDA, H., NAGASHIMA, T. (Chuo Univ., Fac. Sci. and Engn., Bunkyo-ku, Tokyo, 112 Japan): Anomalous specific heat of silver chloride crystals doped with sulphur. *Jap. J. Appl. Phys.* 20 (1981) 1321
- SPRENKLE, W. E., SOUTHERN, J. H. (Monsanto Co., Indian Orchard., Mass., 01151 USA): Rubber-modified polystyrene impact as a function of flame-retardant additive solubilization. *J. Appl. Polym. Sci.* 26 (1981) 2229
- SRIDARAN, P., BHUNIYA, R. C., RATNAM, V. V. (Indian Inst. Technol., Dept. Phys., Kharagpur, 721302 W. Bengal, India): Optical and thermal stability of Ag centres in RT X-irradiated KCl: Ag crystals. *Phys. Status Solidi* 104 (1981) 459
- STEIN, J., SHANKLAND, T. J., NITSAN, U. (Stanford Univ., Dept. Geophys., Stanford, Calif., 94305 USA): Radiate thermal conductivity in obsidian and estimates of heat transfer in magma bodies. *J. Geophys. Res.* 86 (1981) 3684
- STEUDEL, R. (Tech. Univ. Berlin, Inst. Anorgan. und Analyt. Chem., D-1000 Berlin 12): Entropies and heat capacities of gaseous selenium molecules  $Se_n$  ( $n = 5 \dots 12$ ). *Z. Naturforsch. A* 36 (1981) 408

- STEWART, G. R., OLINGER, B., NEWKIRK, L. R. (Univ. Calif. Los Alamos Sci. Lab., Los Alamos, N. M., 87545 USA): Specific heat of A-15 Nb<sub>3</sub>Si produced by explosive compression. *Solid State Commun.* 39 (1981) 5
- STEWART, G. R., OLINGER, B., NEWKIRK, L. R. (Univ. Calif. Los Alamos Sci. Lab., Los Alamos, N. M., 87545 USA): Specific heat of A-15 Nb<sub>3</sub>Si in fields to 7.1T. *J. Low Temp. Phys.* 43 (1981) 455
- SUNDARARAJAN, R., KRISHNA, P. M. M., JAIN, S. R. (c/o S. R. Jain, Indian Inst. Sci., Dept. Aeronaut. Propellant Chem. Lab., Bangalore, 560012 India): Role of chromium oxide in thermal decomposition of tetramethylammonium perchlorate and tetramethylammonium nitrate. *Ind. J. Chem. A* 20 (1981) 315
- SUPRUNENKO, P. A., KAL'NAYA, G. I., MURASHKO, N. I., OBOLONCHIK, V. A. (T. G. Shevchenko State Univ., Kiev, UkrSSR): Effect of heat treatment on the properties of FeCr<sub>2</sub>Se<sub>4</sub>. *Inorg. Mater. transl. Izv. Akad. Nauk SSSR Neorg. Mater.* 16 (1980) 1120
- SUSLOV, I. M.: Theory of thermal conductivity of metals at low temperatures. *Zh. Eksp. Teor. Fiz.* 80 (1981) 2459 (in Russian)
- SVEHLA, G. (Queens Univ. Belfast, Dept. Chem., Belfast BT9 5AG Antrim, North Ireland): Nomenclature for thermal analysis. IV. (provisional). *Pure Appl. Chem.* 53 (1981) 1597
- TAKAHASHI, Y., MUTOH, K., MOTOJIMA, S., SUGIYAMA, K. (Gifu Univ., Fac. Engn., Dept. Synthet. Chem., Kakamigahara, Gifu, 504 Japan): Further investigation on the thermal decomposition of aluminium dialkylamides. *J. Mater. Sci.* 16 (1981) 1217
- TANIEWSKA-OŚIŃSKA, S., WOŹNICKA, J., BARTEL, L. (Univ. Łódz, Inst. Chem., Dept. Phys. Chem., PL-90131 Łódz, Poland): Enthalpy of solution of NaJ in glycerol-water mixtures at various temperatures. *Thermochim. Acta* 47 (1981) 65
- TARI, I., SHINKAWA, H., HIRAI, T. (Okayama Univ., Sch. Engn., Dept. Synthet. Chem., Okayama, 700 Japan): Discharge of cathode-active materials prepared by the thermal decomposition of permanganates. *Denki Kagaku (Electrochem. Soc. Jap.)* 49 (1981) 334
- TSCHEGG, E., SIGMUND, A., VEITL, V., IRSIGLER, K. (Wien Tech. Univ., Inst. Appl. Phys. A-1040 Wien, Austria): A whole-body calorimeter for long-term measurements in man. *J. Phys. E* 14 (1981) 550
- TEKAČ, V., MAJER, V., SVOBODA, V., HYNEK, V. (c/o V. Majer, Inst. Chem. Technol., Dept. Phys. Chem., CS-16628 Prague, Czechoslovakia): Enthalpies of vaporization and cohesive energies for six monochlorinated alkanes. *J. Chem. Thermodyn.* 13 (1981) 659
- TEMKIN, H., KERAMIDAS, V. G., MAHAJAN, S. (Bell Tel Labs. Inc., Murray Hill, N. J., 07974 USA): Thermal decomposition of In P and its influence on iso-epitaxy. *J. Electrochem. Soc.* 128 (1981) 1088
- TIWARI, M. D., RAM, P. N., MANCHANDA, V. K. (Univ. Münster, Inst. Angew. Phys., D-4400 Münster, GFR): Low-temperature specific heats of  $\alpha$ -phase alloys based on copper. *Phil. Mag. B* 43 (1981) 1005
- TIWARI, M. D., THUMMES, G., MENDE, H. H. (Garhwal Univ., Dept. Phys., Srinagar, India): Low-temperature specific heats in  $\alpha$ -phase Cu-Sn alloys. *Phil. Mag. B* 44 (1981) 63
- TKÁČ, A. (Slovak Tech. Univ., Inst. Chem. Phys., CS-88037 Bratislava, Czechoslovakia): Radical processes in polymer burning and its retardation. I. ESR methods for studying the thermal decomposition of polymers in the preflame and flame zones. *J. Polym. Chem. Ed.* 19 (1981) 1475
- TKÁČ, A., ŠPILDA, I. (Slovak Tech. Univ., Inst. Chem. Phys., CS-88037 Bratislava, Czechoslovakia): Radical processes in polymer burning and its retardation. II. An ESR study of flame retardation of polypropylene. *J. Polym. Sci. Polym. Chem. Ed.* 19 (1981) 1495
- TOMESCU, M., DEMETRESCU, I., SEGAL, E. (Natl. Inst. Chem., Chair Phys. Chem. and Electrochem. Technol., Bucharest, Romania): Study on the thermal degradation of acrylic copolymers. *Rev. Roum. Chim.* 26 (1981) 793
- TSOI, L. A., CHOLPANKULOVÁ, S. T., RYSKIEVA, G. K., SALIMBA耶EVA, A. D. (Acad. Sci. KaSSR, Inst. Chem. Sci., Alma Ata, 480021 KaSSR): Study of structure and thermolysis of quaternary salts of 2-alkyl and 2-aryl amino derivatives of thiazolines.

- Khim. Geterotsikl. Soedin.* (1981) 917 (in Russian)
- TURCHANIN, A. G., BABENKO, S. A., EKIMOV, S. E. (Kramatorsk Ind. Inst., Kramatorsk, UkrSSR): Apparatus for accurate determination of enthalpy of solids at high temperatures. Enthalpy of tungsten at 400–1400 °K. *High Temp.* transl. *Teplofiz. Vysok. Temp.* 18 (1980) 755
- UGAI, Y. A., ANOKHIN, V. Z., LOBOVA, V. A., MITTOVA, I. Y., MEDVEDEV, N. M., PASHKOVA, L. I. (Voronezh State Univ., Voronezh, USSR): Thermal oxidation kinetics of silicon, using ion-implantation antimony. *Zh. Fiz. Khim.* 55 (1981) 1873 (in Russian)
- UGAI, Y. A., ANOKHIN, V. Z., MITTOVA, I. Y., MYACHIN, S. M., PONOMAREVA, N. I. (Voronezh State Univ., Voronezh, USSR): Thermal oxidation kinetics of silicon in oxygen in the presence of antimony and bismuth chlorides. *Zh. Fiz. Khim.* 55 (1981) 946 (in Russian)
- USHA, M. G., RAO, M. S., NARAYANAN, T. R. (Indian Inst. Sci., Dept. Inorgan. and Phys. Chem., Bangalore, 560012 India): Preparation and thermal stability of trioxalatocobaltates of bivalent metals  $KM^{2+}[Co(C_2O_4)_3] \cdot x H_2O$ . *Thermochim. Acta* 46 (1981) 259
- USHA, M. G., RAO, M. S., KUTTY, T. R. N. (c/o M. S. Rao, Indian Inst. Sci., Dept. Inorgan. and Phys. Chem., Bangalore, 560012 India): Preparation, characterization and thermal stability of ammonium trioxalatocobaltate(III) trihydrate. *Indian J. Chem.* 20 (1981) 319
- VANCSÓ-SZMERCSÁNYI, I., SZILÁGYI, A. (Res. Inst. Plast. Ind., Hungária krt. 114, H-1950 Budapest, Hungary): Metal-containing coordination polymers. 9. Thermal studies on ionic polyesters. *Magy. Kém. Foly.* 87 (1981) 214 (in Hungarian)
- VAN DER KERK, S. M. (Free Univ. Amsterdam, Dept. Phys. Chem., Chem. Lab., 1007 MC Amsterdam, Netherlands): 1-Methylborepin, its aromaticity and thermal decomposition. *J. Organometal. Chem.* 215 (1981) 315
- VANDERZEE, C. E., WIGG, D. A. (Univ. Nebraska, Dept. Chem., Lincoln, Nebr., 68588 USA): The standard enthalpies of solution 23 and formation of Wegscheider's salt:  $Na_2CO_3 \cdot 3 NaHCO_3(s)$  and of trona:  $Na_2CO_3 \cdot NaHCO_3 \cdot 2 H_2O(s)$  at 298.15 K. *J. Chem. Thermodyn.* 13 (1981) 573
- VAN EKENSTEIN, G. O. R. A., KOETSIER, D. W., TAN, Y. Y. (State Univ. Groningen, Polymer Chem. Lab., 9747 AG Groningen, Netherlands): A study of radical polymerization of N-vinyl-pyrrolidone in the presence of poly(methacrylic acid) templates by DSC. *Eur. Polym. J.* 17 (1981) 845
- VAN EKENSTEIN, G. O. R. A., TAN, Y. Y. (State Univ. Groningen, Polymer Chem. Lab., 9747 AG Groningen, Netherlands): A differential scanning calorimetric study of the radical polymerization of N-vinyl-pyrrolidone in dimethylformamide. *Eur. Polym. J.* 17 (1981) 839
- VAN LINTHOUT, J. P., VERDONCK, L., VAN DER KELEN, G. P. (State Univ. Ghent, Gen. and Inorgan. Chem. Lab. B, Krijgslaan 271, B-9000 Ghent, Belgium): Vibrational, NQR and thermogravimetric study of complexes between triphenyl group VB compounds and mercuric halides. *J. Mol. Struct.* 74 (1981) 255
- VASILEV, V. A.: Theory of heat capacities and volumes of polyatomic ions in aqueous solution. *Zh. Fiz. Khim.* 55 (1981) 968 (in Russian)
- VASILEV, V. P., KOCHERGINA, L. A., MOROZOVA, N. V., RUDOMINO, M. V., KOLOVA, E. K. (Ivanovo Chem. Technol. Inst., Ivanovo, USSR): Thermal effects of gradual dissociation of glycinebismethylenephosphonic acid. *Zh. Obshch. Khim.* 51 (1981) 1557 (in Russian)
- VASILEV, V. P., KOZLOVSKII, E. V., MOKEEV, A. A.: (Ivanovo Chem. Technol. Inst., Ivanovo, USSR): Standard enthalpy of  $HgCl_2(K)$  formation. *Zh. Neorg. Khim.* 26 (1981) 1213 (in Russian)
- VINOGRADOV, I. V., KONAREV, M. I., ZAITSEVA, L. L.: Thermal stability of ammonium and potassium hexaiodotechnetates. *Zh. Neorg. Khim.* 26 (1981) 1581 (in Russian)
- VISHNEVETSKAYA, I. A., KUDRYASHEVA, L. V., ORDAN'YAN, S. S. (Acad. Sci. USSR, Inst. High Temp., Moscow, V-71 USSR): Effect of degree of dispersion of initial powder on thermal and electrical conductivity of sintered zirconium carbide. *High Temp.* transl. *Teplofiz. Vys. Temp.* 18 (1981) 586

- VORONIN, G. F. (M. V. Lomonosov State Univ., Moscow, 117234 USSR): Calculation of thermodynamic properties of alloys according to calorimetric data and diagrams to the phase states. 2. Indium and antimony alloys. *Zh. Fiz. Khim.* 55 (1981) 1136 (in Russian)
- VORONIN, G. F., DEGTYAREV, S. A. (M. V. Lomonosov State Univ., Moscow, 117234 USSR): Some calculations of thermodynamic properties of alloys according to calorimetric data and structural diagrams. 3. Antimony and tellurium alloys. *Zh. Fiz. Khim.* 55 (1981) 1685 (in Russian)
- WIBERG, K. B., SCHWARTZ, J. (Univ. München, Inst. Anorgan. Chem., D-8000 München, 2 GFR): Electron transfer in nickel-catalyzed addition reactions of organozirconium compounds to unsaturated ketones. *J. Amer. Chem. Soc.* 103 (1981) 4473
- WIECZOREK-CIUROWA, K., PAULIK, F., PAULIK, J. (Tech. Univ. Cracow, Inst. Inorgan. Chem. and Technol., Kraków, Poland): Influence of foreign materials upon the thermal decomposition of dolomite, calcite and magnesite. III. The effect of the thermal dissociation and sulphation conditions on the capture sulphur dioxide. *Thermochim. Acta* 46 (1981) 1
- WIGMANS, T., VAN DAM, F., MOULIJN, J. A. (Inst. Chem. Technol., Plantage Muidergrach, 30 1018 TV Amsterdam, Netherlands): Comparison of a block-flow reactor and thermogravimetric analysis in the steam gasification of different types of carbon. *Carbon* 19 (1981) 309
- WILLIAMS, J. S., CHRISTODOULIDES, C. E. (Royal Melbourne Inst. Technol. Ltd., Dept. Commun. and Electr. Engn., 124 La Trobe St., Melbourne, 3000 Australia): Thermal oxidation of ion implanted silicon. *Nucl. Instr. Methods* 182 (1981) 667
- WU, Z., YOKOTA, R., KOCHI, M., KAMBE, H. (Jilin Univ., Changchun, Peoples R. China): The thermal stability of polyarylsulfones. *Kobunshi Ronbunshu (Jap. Polym. Sci. Techn.)* 38 (1981) 479 (in Japanese)
- WUNSCH, K. M., WACHTEL, E. (Max Planck Inst. Met. Res., Inst. Werkstoffwissensch., D-7000 Stuttgart, 1 GFR): Thermische Entordnungsvorgänge von L<sub>2</sub>-Überstruktur-Anteilen in Co<sub>50</sub>Mn<sub>x</sub>-Ga<sub>50-x</sub> Legierungen. *J. Less-Common Metals* 80 (1981)
- YAGHUBZADE, R. I. (Acad. Sci. AzSSR, Inst. Cybernet., Baku, AzSSR): The numerical solution of some problems of fibration and heat conductivity in piecewise-similar spheres. *Izv. Akad. Nauk Azerb. SSR* (1981) 121 (in Russian)
- YAMANAKA, A., KASAHIARA, M., TATSUZAKI, I. (Hokkaido Univ., Appl. Elect. Res. Inst., Sapporo, Hokkaido, 060 Japan): Scattering angle dependence of Brillouin shift near the normal-incommensurate phase transition point of Rb<sub>2</sub>ZnCl<sub>4</sub>. *J. Phys. Soc. Jap.* 50 (1981) 735
- YAMANAKA, K. (Hitachi Ltd., Cent. Res. Lab., Kokubunji, Tokyo, 185 Japan): The electrochromic properties of thermally decomposed films of an organic tungsten compound. *Jap. J. Appl. Phys.* 20 (1981) L 307
- ZAITLIN, M. P. (Dartmouth Coll., Dept. Phys. and Astron., Hanover, N. H., 03755 USA): Calculation of the thermal conductivity of a normal metal in contact with a superconductor. *J. Low Temp. Phys.* 43 (1981) 423
- ZAKHAROVA, M. I., KHUNDZHUA, A. K., KERTÉSZ, L., SZÁSZ, A. (M. V. Lomonosov State Univ., Inst. Solid State Phys., Moscow, 117234 USSR): Thermal decomposition of the B. C. C.  $\beta$ -solid solution of titanium alloy containing 6.7 at % Mo, 3 at % Zr, and 1.8 at % Sn. *I. Phys. Status Solidi A* 65 (1981) 265
- ZAKUMBAEVA, G. D., NAIDIN, V. A., DAGIROV, T. S. (Acad. Sci. KaSSR, Inst. Organ. Catalysis and Electrochem., Alma-Ata, 480021 KaSSR): Calorimetric studies of the properties of Pd/Al<sub>2</sub>O<sub>3</sub> with different metal contents. *React. Kinet. Catal. Lett.* 16 (1981) 277
- ZŁĘUSKI, L., LEONOWITZ, M., TRYKOZKO, R. (Warsaw Tech. Univ., Inst. Phys., Chodkiewicza 8, PL-02524 Warszawa, Poland): Thermal and electrical properties of Te<sub>80</sub>Si<sub>20-x</sub>Pb<sub>x</sub> glasses. *Solid State Commun.* 39 (1981) 997
- ŻURAKOWSKA-ORSZÁGH, J., CHREPTOWICZ, T. (Univ. Warsaw, Dept. Chem., PL-02093 Warszawa, Poland): Thermal degradation of polyimide II. Mechanism of carbon dioxide formation during thermal degradation. *Eur. Polym. J.* 17 (1981) 877