

Bibliography Section

- ABATE, L., CASTELLI, F., SIRACUSA, G. (Univ. Catania, Ist. Dipartimentale Chemie Chim. Ind., I-95125 Catania, Italy): Thermal decomposition of metal complexes. X. Uranyl nitrate-phenylurea complexes. *Thermochim. Acta* 41 (1980) 87
- ABBÅS, K. B. (Telefon AB LM Ericsson, Mat. Lab., S-12625 Stockholm, Sweden): Thermal degradation of bisphenol A polycarbonate. *Polymer* 21 (1980) 936
- ABDELREHIM, A. M. (Univ. Alexandria, Fac. Sci., Alexandria, Egypt): Sintering of corundum with ammonium fluoride. *6th Int. Conf. Thermal Anal.*, Bayreuth, Jul. 6-12, 1980, Birkhauser Verlag, Basel (1980) I, 357
- ABOU EL ELA, A. H., LABIB, H. H. A., SHARAF, K. H. A. (Islam Girls Coll., Dept. Phys., Nasr City, Egypt): Thermal conductivity of liquid selenium and Se-Tl-S alloys. *Acta Phys. Acad. Sci. Hung.* 47 (1979) 353
- ADOLF, A. (CENS, Dept. Phys. Chim., Phys. Mat. Lab., BP 2, F-91190 Gif-sur-Yvette, France): Low temperature thermal conductivity measurements under unaxial compression. *Rec. Sci. Instr.* 51 (1980) 1217
- AGRAWAL, Y. K., ROSHANIA, R. D. (MS Univ. Baroda, Fac. Technol. and Engn., Dept. Pharm., Baroda, 390001 India): Thermodynamic proton-ligand stability constants in dioxane-water media. pK_a , ΔG° , ΔH° and ΔS° values for N-p-chlorophenyl substituted hydroxamic acids. *Thermochim. Acta* 42 (1980) 1
- AIROLDI, C., CHAGAS, A. P., ASSUNÇAO, F. P. (Univ. Estadual Campinas, Inst. Quim., Campinas, 13100 S. P., Brasil): Thermochemical study of adducts of tetramethyl-
- urea with zinc, cadmium, and mercury halides. *J. Chem. Soc. Dalton Trans.* (1980) 1823
- AKHMEDOV, A. G. (V. I. Lenin State Teachers Inst., Baku, AzSSR): Isobaric heat capacity of liquid hydrocarbons at various temperatures and pressures. *Zh. Fiz. Khim.* 54 (1980) 2357 (in Russian)
- ALEKSEEVSKII, N. E., WOLF, G., HOHLFELD, C., DOBROVOLSKII, N. M. (Acad. Sci. USSR, Inst. Phys. Technol., Moscow, V-71 USSR): Specific heat capacity of molybdenum chalcogenides. V. An investigation of the heat capacity of $PbMo_6S_8$, $PbMo_6Se_8$, and corresponding samples with depressed T_c values. *J. Low Temp. Phys.* 40 (1980) 479
- ALEXANDER, M. G., GOSHORN, D. P. (Univ. Delaware, Dept. Phys., Newark, Del., 19711 USA): Low-temperature specific heat of the graphite intercalation compounds KC_8 , CsC_8 , RbC_8 and their parent highly oriented pyrolytic graphite. *Phys. Rev. B* 22 (1980) 4535
- ALEXANDROV, Y. A., LEBEDEV, S. A., KUZNETSOVA, R. V. (N. I. Lobachevskii State Univ., Inst. Chem., Gorki, USSR): Thermal decomposition of organo-zinc and -cadmium peroxides in hydrocarbons. *J. Organometal. Chem.* 201 (1980) 21
- ALIEV, F. Y., KRUPNIKOV, E. S., KERIMOV, I. G., ASADOV, Y. G. (Acad. Sci. AzSSR, Inst. Phys., Baku, AzSSR): Phase transition in silver telluride films at low temperatures. *Inorg. Mater.* transl. *Izv. Akad. Nauk SSSR Neorg. Mater.* 16 (1980) 248
- ALLARA, D. L., SHAW, R. (Bell Tel. Labs. Inc., Murray Hill, N. J., 07974 USA): A compilation of kinetic parameters for

- the thermal degradation of n-alkane molecules. *J. Phys. Chem. Ref. Data* 9 (1980) 523
- ALLEN, D. W., BROOKS, J. C., CLARKSON, R. W., MELLOR, M. T. J., WILLIAMSON, A. G. (Sheffield Polytech., Dept. Chem., Sheffield S1 1WS, S. Yorkshire, England): A ^{113}Sn Mössbauer study of the thermal degradation of organotin stabilisers in PVC. *J. Organometal. Chem.* 199 (1980) 299
- ALSDORF, E., HABERSBERGER, K., SCHNABEL, K. H., WALKOV, W. (Acad. Sci. GDR, Cent. Inst. Phys. Chem., DDR-108 Berlin): Application of temperature programmed sorption and reaction and of DTA data to the characterization of bismuth molybdate catalysts. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6–12, 1980 Birkhauser Verlag, Basel* (1980) I, 387
- AMICARELLI, V., BALDASSARRE, G., LIBERTI, L. (Fac. Ingn. Bari, Ist. Chim. Appl., Via Re David 200, Bari, Italy): Low temperature regeneration of activated carbon-kinetic analysis of thermodesorption of phenol. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6–12, 1980, Birkhauser Verlag, Basel* (1980) I, 433
- ANDERSEN, N. H., KJEMS, J. K., VOGT, O. (Riso Natl. Lab., DK-4000 Roskilde, Denmark): Temperature-dependent statistical theory of cross relaxation in nickel-sodium triacetylacetone dioxane. *J. Phys. C* 13 (1980) 5137
- ANDERSON, H., HOFFMANN, U., HABERLAND, D. (Ernts Moritz Arndt Univ., Sekt. Chem., DDR-22 Greifswald, GDR): Study of kinetic reaction between derivates of aniline and benzene-sulfochloride by means of quantitative DTA. *Z. Phys. Chem.* 261 (1980) 639
- ANDRE, Y. B., CHAMBARET, J. P., LAMOUROUX B. L., PRADE, B. S. (Ecole Polytech., Opt. Appl. Lab., F-91120 Palaiseau, France): Transient thermal behaviour of a liquid crystal target. *Infrared Phys.* 20 (1980) 341
- ANDREIS, B., SCHULZ, J. P., WAPPLER, E. (WC Heraeus GmbH, Hanau, GFR): Dynamic elasticity measurements on plastics. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6–12, 1980, Birkhauser Verlag, Basel*, (1980) I, 225
- ANTONELLI, M. L., CEIPIDOR, U. B., RUCCI, R., CARUNCHIO, V. (c/o V. Carunchio, Univ. Rome, Inst. Analyt. Chem., I-00100 Rome, Italy): Microcalorimetric and spectrophotometric investigation on cobalt(II)-bromide system in ethanol. *Inorg. Chim. Acta* 45 (1980) L173
- ANTONOV, P. G., MITRONINA, L. N., SOKOLOV V. V., POSTNIKOVA, E. S. (Lensovet Technol. Inst., Leningrad, USSR): Thermal conversion of trans [HPtCl(PPh₃)₂]. *Zh. Neorg. Khim.* 25 (1980) 2573 (in Russian)
- ARAUJO, R. J. (Corning Glass Works, Res. and Dev. Lab., Corning, N. Y., 14830 USA): Temperature dependence of boron coordination in alkali borate glasses as an example of a second order transition. *Phys. Chem. Glasses* 21 (1980) 193
- ARNOLD, M., VERESS, G., PAULIK, J., PAULIK, F. (Tech. Univ. Budapest, Inst. Gen. and Anal. Chem., H-1521 Budapest, Hungary): Some remarks on the applicability of the Arrhenius model in thermal analysis. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6–12, 1980, Birkhauser Verlag, Basel* (1980) I, 69
- ARUGA, R. (Univ. Turin, Dept. Analyt. Chem., I-10125 Turin, Italy): Association reactions of magnesium(II), calcium(II), strontium(II), and barium(II) with malate ion in aqueous solution. Influence of enthalpy and entropy factors on the stability order of the complexes. *Inorg. Chem.* 19 (1980) 2895
- ASANO, Y., MIYAJIMA, M., NAGASHIMA, Y., OGAWA, K., TSURU, T., DOKE, T., FUJITA, Y., HOSHI, Y., KAGA, T., MASUDA, K. (Natl. Lab. High Energy Phys., Tsukuba, Ibaraki, 30032 Japan): Test of iron — liquid argon and lead — liquid argon sampling calorimeters for detection of electromagnetic showers. *Nucl. Instrum. Methods* 174 (1980) 357
- ASSAEL, M. J., WAKEHAM, W. A. (c/o W. A. Wakeham, Univ. London, Imperial Coll. Sci. and Technol., Dept. Chem. Eng. and Chem. Technol., London, SW7 2AZ, England): The thermal conductivity of mixtures of hydrogen with the monatomic gases. *Ber. Bunsen Ges. Phys. Chem.* 84 (1980) 840
- AUGSBURGER, E. I., DIETSCHE, W., KINDER, H., BECKER, J. (Tech. Univ. München, Dept. Phys., D-8046 Garching, GFR): Thermal conductivity of several fibre-reinforced composites between 2K and 300K. *Cryogenics* 20 (1980) 666

- AUSLOOS, M. (Univ. Liège, Inst. Phys. B5, B-4000 Liège 1, Belgium): Electrical and thermal properties of magnetically ordered metallic compounds TbZn, TbGd and GdCd. *Int. Conf. Cryst. Electr. Field and Struct., Philadelphia, Pa., Nov. 12-15, 1979, Plenum Press (New York) 1980*, 425
- BADR, Y. A., KAMEL, R. (Univ. Cairo, Fac. Sci., Dept. Phys., Cairo, Egypt): Comparative study of structure changes with temperature in univalent and divalent ionic nitrate crystals. *J. Phys. Chem. Solids 41* (1980) 1127
- BAKER, R. R. (British Amer. Tobacco Co. Ltd, Grp. Res. and Dev. Ctr., Southampton, England): Development of temperature distribution inside the reaction zone of a burning cigarette. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6-12, 1980, Birkhauser Verlag, Basel* (1980) I, 439
- BAKHTURIDZE, G. S., ÉDILASHVILI, I. L., ALEKSANDROV, A. L. (Acad. Sci. USSR, Inst. Chem. Phys., Chernogolovka, USSR): Mechanism of thermal oxidation of N,N'-N,N'-tetramethyl-1,4'-diaminodiphenylmethane. *Bull. Acad. Sci. USSR Div. Chem. Sci. transl. Izv. Akad. Nauk SSSR Khim. 29* (1980) 58
- BALEK, V., DOHNALEK, J., EMMERICH, W. D. (Nucl. Res. Inst., Rez, Czechoslovakia): Effect of elevated temperatures on the hydration of cement investigated by emanation thermal analysis. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6-12, 1980, Birkhauser Verlag, Basel* (1980) I, 375
- BALLISTRERI A., FOTI, S., MARAVIGNA, P., MONTAUDO, G., SCAMPORRINO, E. (c/o G. Montaudo, Univ. Catania, Ist. Dipartimentale Chim. e Chim. Ind., I-95125 Catania, Italy): Thermal degradation of polyurethanes investigated by direct pyrolysis in the mass spectrometer. *Makromol. Chem. 181* (1980) 2161
- BAMBERGER, C. E., ROBINSON, P. R. (Oak Ridge, Natl. Lab., Div. Chem., POB X Oak Ridge, Tenn., 37830 USA): Thermochemical splitting of water and carbon dioxide with cerium compounds. *Inorg. Chim. Acta Articles 42* (1980) 133
- BANDURYAN, S. I., IOLEVKA, M. M., IVANOVA, N. A., KHANIN, Z. S., VOLOKHINA, A. V., PANKOV, S. P. (Khimvolokno Sci. Ind. Assoc., Leningrad, USSR): A structure formation during phase transitions in poly-p-phenyleneterephthalamides solutions. *Vysokomol. Soedin. A 22* (1980) 2300 (in Russian)
- BANIK, G., SCHMITT, T., ETTMAYER, P., LUX, B. (Tech. Univ., Inst. Chem. Technol. Anorgan. Stoffe, A-1040 Wien, Austria): Thermochemical aspects on the system Cr—Cr₂O₃. *Z. Metallk. 71* (1980) 644
- BARENDRREGT, R. B., VERHOEFF, J., VANDENBERG, P. J. (TNO, Prins Maurits Lab., POB 45, NL-2280 AA Rijswijk, Netherlands): A comparison of DTA evaluating methods of DTA experiments with tertiary butylperpivalate as a testing substance. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6-12, 1980, Birkhauser Verlag, Basel* (1980) I, 105
- BARONE, G., CASTRONUOVO, G., ELIA, V. (Univ. Naples, Ist. Chim., I-80134 Naples, Italy): Prediction of excess enthalpies for ternary aqueous solutions of nonelectrolytes. *J. Solut. Chem. 9* (1980) 607
- BARTEN, H., CORDFUNKE, E. H. P. (c/o E. H. P. Cordfunke, ECN Netherlands Energy Res Fdn., Petten, Netherlands): The formation and stability of hydrated and anhydrous uranyl phosphates. *Thermochim. Acta 40* (1980) 357
- BARTEN, H., CORDFUNKE, E. H. P. (c/o E. H. P. Cordfunke, ECN Netherlands Energy Res. Fdn., Petten, The Netherlands): The formation and stability of hydrated and anhydrous uranyl arsenates. *Thermochim. Acta 40* (1980) 367
- BARYSHNIKOV, Y. Y., KATKOVA, M. A., MAKIN, G. I., ALEKSANDROV, Y. A., FAERMAN, V. I., LINEVA, A. N. (N. I. Lobachevskii State Univ., Chem. Res. Inst., Gorki, USSR): Thermal decomposition of monohalovanadocenes. *Zh. Obshch. Khim. 50* (1980) 1994 (in Russian)
- BATTINO, R., MARSH, K. N. (c/o K. N. Marsh, Univ. New England, Dept. Phys. and Inorgan. Chem., Armidale, NSW 2351, Australia): An isothermal displacement calorimeter for the measurement of the enthalpy of solution of gases. *Aust. J. Chem. 33* (1980) 1997
- BECKHAUS, H. D., KRATT, G., LAY, K., GEISELMANN, J., RÜCHARDT, C., KITSCHKE, B., LINDNER, H. J. (c/o Rüchardt, Univ.

- Univ. Freiburg, Chem. Lab., D-7800 Freiburg, GFR): Thermolabile hydrocarbons. XIII: 3,4-dicyclohexyl-3,4-dimethylhexane. Standard heat of formation, thermal stability, and structure. *Chem. Ber.* 113 (1980) 3441
- BEHNISCH, J., SCHAAF, E., ZIMMERMANN, H. (Acad. Sci. GDR, Inst. Polymerenchem., Teltow, GDR): Zur Vergleichbarkeit kinetischer Parameter aus isothermen und nicht-isothermen TG-Untersuchungen. *Thermochim. Acta* 42 (1980) 65
- BENSON, S. W. (Univ. So. Calif., Dept. Chem., Inst. Hydrocarbon Res., Los Angeles, Calif., 90007 USA): The thermochemistry and kinetics of gas phase reactions. *Symp. Frontiers Free Rad. Chem., Louisiana State Univ., Baton Rouge, La., April 10-11, 1979, Acad. Press New York* (1980) 1
- BEREGI E., STATIS, J., GÁL, S. (Res. Inst. Telecommun., Pf. 15 H-1525 Budapest, Hungary): Use of the DTG (M) method to measure the Curie temperature of certain magnetic oxide materials. *Acta Phys. Acad. Sci. Hung.* 47 (1979) 255
- BERJOAN, R., COUTURES, J. (CNRS, Ultra Refractaires Lab., BP 5, F-66120 Odeillo Fontromeu, France): Structural studies of the (La,Ca)CrO₃ system at high temperature. *Rev. Int. Hautes Temp.* 17 (1980) 261
- BERLIN, A. A., GERASIMOV, B. G., IVANOV, A. A., MASLIUKOV, A. P., SELSKAYA, O. G., BELOVA, L. I. (c/o B. G. Gerasimov, Acad. Sci. USSR, Inst. Chem. Phys., Moscow, V-71 USSR): Synthesis and properties of copolymers having polyconjugated blocks in the macromolecules. III. Thermal behaviour of polyisoprene — containing polyazophenylene fragments in the main chains. *J. Macromol. Sci. A*, 4 (1980) 991
- BERNDT, H. J., HEIDEMANN, G. (Deutsch. Text. Forschungszentrum Nord-West e.V., Text. Forsch. Anstalt, D-4150 Krefeld, GFR): Equilibrium shrinkage-force measurement. A method describing the state of order of pet-fibres. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6-12, 1980, Birkhauser Verlag, Basel* (1980) I, 345
- BERTÓTI, I., PAP, I. S., SZÉKELY, T., TÓTH A. (Hungarian Acad. Sci., Inorgan. Chem. Res. Lab., H-1112 Budapest, Hungary): Kinetics of γ -alumina chlorination by carbon tetrachloride. *Thermochim. Acta* 41 (1980) 27
- BERTRAND, G., COMPERAT, M., LALLEMANT, M. (Fac. Sci. Mirande, CNRS, Rech. React. Solides, F-21004 Dijon, France): Endothermic decompositions of inorganic monocrystalline thin plates. II. Displacement rate modulation of the reaction front. *J. Solid State Chem.* 34 (1980) 157
- BETTERIDGE, D., CUDBY, M. E. A., SHOKO, N. R., WOOD, D. M. G. (Univ. Wales, Univ. Coll. Swansea, Dept. Chem., Swansea, SA2 8PP, W. Glamorgan, Wales): Thermal degradation of PTFE studied by ultraviolet photoelectron spectroscopy. *Polymer* 21 (1980) 1309
- BILLY, M., LABBE, J. C., SELVARAJ, A., ROULT, G. (Univ. Limoges, CNRS, Ctr. Rech. Etud Ceram., Equipe Rech. 539, F-87060 Limoges, France): Modifications structurales de l'oxynitruite de silicium sous contraintes thermiques. *Mater. Res. Bull.* 15 (1980) 1207
- BISWAS, P. K., ROY, A., NAG, K. (Indian Inst. Technol., Dept. Chem., Kharagpur, 721302 W. Bengal, India): Unusual phase transition of barium iodate. *Thermochim. Acta* 42 (1980) 91
- BJORKSTAM, J. L., FERLONI, P., VILLA, M. (Univ. Washington, Dept. Elect. Engr., Seattle, Wash., 98195 USA): ²³Na second-order quadrupolar shifts and heat capacity anomalies in Na β -alumina. *J. Chem. Phys.* 73 (1980) 2932
- BLOEMEN, E., THOEN, J., VAN DAEL, W. (MIT, Dept. Chem., Cambridge, Mass., 02139 USA): The specific heat anomaly in triethylamine — heavy near the critical solution point. *J. Chem. Phys.* 73 (1980) 4628
- BOL'SHAKOV, V. I., PILIPCHENKO, Y. I., SPIVAKOV, V. I. (Dnepropetrovsk Construct. Engr. Inst., Dnepropetrovsk, UkrSSR): Effect of heat treatment on the structural strength of low-alloy steels. *Metal Sci. Heat Treat.* transl. *Metall. Term. Obr. Met.* 221 (1980) 44
- BORDAS, S., GELI, M., BALEK, V., VOBORIL, M. (Univ. Autònoma Barcelona, Dept. Termol., Bellaterra, Spain): Thermal behaviour of Ge₂₅Te₆₀Se₁₅ investigated by emanation thermal analysis and DTA. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6-12, 1980, Birkhauser Verlag, Basel* (1980) I, 403
- BORDEN, P. G. (Varian Associates Inc., Corp. Solid State Lab., Palo Alto, Calif., 94303

- USA): A novel method for measuring the thermal conductivity of electro-deposited gold films. *J. Electrochem. Soc.* 127 (1980) 2454
- BOREVSKIY, V. M., VORONOV, V. A., STARYKH, V. I.: Physico-chemical properties of exothermic mixtures. *Russ. Met. transl. Izv. Akad. Nauk SSSR Met.* (1979) 56
- BORZONE, G., BORSESE, A., FERRO, R. (Univ. Genoa, Ist. Chim. Gen., I-16132 Genoa, Italy): Heats of formation of gadolinium-bismuth alloys. *Thermochim. Acta* 41 (1980) 175
- BOWERMAN, B. S., WULFF, C. A., BIEHL, G. E. FLANAGAN, T. B. (Univ. Vermont, Dept. Chem., Burlington, Vt., 05401 USA): Calorimetry within hysteresis loops: application to LaNi₅-H. *J. Less-Common Metals* 73 (1980) 1
- BRAR, A. S., SANDHU, H. S., SANDHU, S. S. (c/o S. S. Sandhu, Guru Nanak Dev. Univ., Dept. Chem., Amritsar 143005 Punjab, India): Thermal decomposition of hexahydrato thorium(IV) ferrocyanide. *Thermochim. Acta* 41 (1980) 253
- BRAUMAN, J. I. (Stanford Univ., Dept. Chem., Stanford, Calif., 94305 USA): Neutral thermochemistry from ionic reactions. *Symp. on Frontiers of Free Radical Chem., Louisiana State Univ., Baton Rouge, La., April 10–11, 1979, Acad. Press New York* (1980) 23
- BROGLI, F., GYGAX, R., MEYER, M. W. (CIBA Geigy A. G. Cent. Safety Res. Lab., CH-4002 Basel, Switzerland): Differential scanning calorimetry. A powerful screening method for the estimation of the hazards inherent in industrial chemical reactions. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6–12, 1980, Birkhauser Verlag, Basel* (1980) I, 549
- BROWNING, P. (AERE, Div. Chem., Harwell OX11 ORA, Oxfordshire, England): On the relative importance of the electronic and radiative contributions to the thermal conductivity of uranium dioxide. *J. Nucl. Mater.* 92 (1980) 33
- BUBECK, C., HERSEL, W., NEUMANN, W., SIXL, H., WALDMANN, J. (Univ. Stuttgart, Inst. Phys. 3, D-7000 Stuttgart, 80 GFR): The thermal intermediates of the low temperature photoinduced polymerization reaction in diacetylene crystals. *Chem. Phys.* 51 (1980) 1
- BURGOT, J. L., BERNARD, A. M. (Fac. Med. and Pharm. Rennes Villejean, UER Med. Chim. Analyt. Lab., Rennes Villejean, France): Thermometric titration of acetic and bromoacetic acid mixtures. *Analisis* 8 (1980) 305
- BURNS, G. (IBM Corp., Thomas J. Watson Res. Ctr., POB 218, Yorktown Hts., N.Y., 10598 USA): Comment on the low temperature specific heat of ferroelectrics, and related materials. *Solid State Commun.* 35 (1980) 811
- BUSHBY, R. J. (Univ. Leeds, Leeds LS2 9JT, W. Yorkshire, England): Organic anions. 6. Thermal and photochemical interconversion of (E,E)- and (E,Z)-diphenylallyl anions. *J. Chem. Soc. Perkin Trans. II* (1980) 1419
- BUTLER, J. J., BAER, T. (c/o T. Baer, Univ. N. Carolina, Dept. Chem., Chapel Hill, N.C., 27514 USA): Thermochemistry and dissociation dynamics of state-selected C₄H₄X ions. 1. Thiophene. *J. Amer. Chem. Soc.* 102 (1980) 6764
- BUTTLER, F. G., MORGAN, S. R. (Teesside Polytech., Middlesbrough TS1 3BA, Cleveland, England): A thermogravimetric method for studying the reaction between fly-ash and the calcium hydroxide liberated on hydration of portland cement. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6–12, 1980, Birkhauser Verlag Basel* (1980) I, 381
- BUZÁS, I., GÁL, S., SIMON, J. (Hungarian Acad. Sci., Dept. Nat. Sci., H-1361 Budapest 5, Hungary): Investigation of vegetable oils with derivatograph. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6–12, 1980, Birkhauser Verlag, Basel* (1980) I, 535
- CALLANAN, J. E., WEIR, R. D., STAVELEY, L. A. K. (US Doe, Bartlesville Energy Technol. Ctr., POB 1398, Bartlesville, Okla., 74003 USA): The thermodynamics of mixed crystals of ammonium chloride and ammonium bromide. I. The heat capacity from 8K to 476K of an approximately equimolar mixture. *Proc. Royal Soc.* 372 (1980) 489
- CALLANAN, J. E., WEIR, R. D., STAVELEY, L. A. K. (US Doe, Bartlesville Energy Technol. Ctr., POB 1398, Bartlesville, Okla., 74003 USA): The thermodynamics of mixed crystals of ammonium chloride

- and ammonium bromide. II. An analysis of the heat capacity of ammonium chloride, ammonium bromide, and an approximately equimolar solid solution of these salts. *Proc. Royal Soc.* 372 (1980) 497
- CAMMERGA, H. K., PETRICK, H. J. (Tech. Univ. Braunschweig, Inst. Phys. Chem., D-3300 Braunschweig, GFR): A new isothermal DTA method for the study of surfactants at liquid surfaces. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6-12, 1980* Birkhauser Verlag, Basel (1980) I, 149
- CARDILLO, P., GIRELLI, A. (Stn. Sperimentale Combustibili, San Donato, Milanese, Italy): Thermoanalytical study of the seveso mixture. *Chim. Ind.* 62 (1980) 651
- CHAO, J., WILHOIT, R. C., HALL, K. R. (Texas A and M Univ., Texas Engn. Expt. Stn., Thermodynam. Res. Ctr., College Stn., Tex., 77840 USA): Perfect gas thermodynamic properties of methanal, ethanal and their deuterated species. *Thermochim. Acta* 41 (1980) 41
- CHARSLEY, E. L., JOANNOU, J., KAMP, A. C. F., OTTAWAY, M. R., REDFERN, J. P. (Stanton Redcroft, Copper Mill Lane, London, England): A simultaneous TG—DTA system for operation from 150 °C to 1500 °C. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6-12, 1980*, Birkhauser Verlag, Basel (1980) I, 237
- CHARSLEY, E. L., KAMP, A. C. F., RUMSEY, J. A. (Stanton Redcroft, Copper Mill Lane, London, England): Transmitted light hot stage microscopy in the temperature range —180 °C to 600 °C. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6-12, 1980*, Birkhauser Verlag, Basel (1980) I, 285
- CHAWLA, B., SURI, S. K. (Indian Inst. Technol., Dept. Chem., New Delhi, 110029 India): Thermodynamic studies of some binary mixtures containing a self-associated component. II. Excess volumes of some mixtures of tetrahydrofuran with alcohols. *Thermochim. Acta* 41 (1980) 147
- CHEER, R. L., HEDWIG, G. R., WATSON, I. D. (Massey Univ., Dept. Chem. Biochem. and Biophys., Palmerston North, New Zealand): A microcalorimetric study of the reaction catalysed by pyruvate kinase. *Biophys. Chem.* 12 (1980) 73
- CHEN, G. C., ROSA, C. J. (c/o C. J. Rosa, Univ. Cincinnati, Dept. Mat. Sci. and Met. Engn., Cincinnati, Ohio, 45221 USA): Oxidation of Nb-9.5 at% Cr alloy in the temperature range of 900–1100 °C at 100–760 torr oxygen. *High Temp. Sci.* 12 (1980) 151
- CHILD, R. F., HAGAR, M. E. (McMaster Univ., Dept. Chem., Hamilton, Ontario, L8S 4M1 Canada): Photo- and thermal isomerization of some 1-methoxyallyl cations. *Can. J. Chem.* 58 (1980) 1788
- CHIU, J., BEATTIE, A. J. (Dupont Co., Dept. Polymer Prod. Exptl. Stn., Wilmington, Del., 19898 USA): Techniques for coupling mass spectrometry to thermogravimetry. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6-12, 1980* Birkhauser Verlag, Basel (1980) I, 245
- CHIZHEVSKII, S. V., KHARITONOV, Y. Y., YAGODIN, G. A. (D. I. Mendeleev Chem. Technol. Inst., Moscow, USSR): Relation between isomeric shift of Sn-119 nuclear gamma-resonance and formation enthalpies of tin tetrahalides. *Zh. Neorg. Khim.* 25 (1980) 2563 (in Russian)
- COLLETT, G. W., RAND, B. (Glass Tubes and Components Ltd., Chesterfield, England): Thermogravimetric investigation of the pyrolysis of pitch materials. A compensation effect and variation in kinetic parameters with heating rate. *Thermochim. Acta* 41 (1980) 153
- COMEL, C., VERON, J., BOUSTER, C., VERMANDE, P. (Inst. Natl. Sci. Appl. Lyon, Dept. Genie Energet. Chim. Appl. Lab., Bat 404, F-69621 Villeurbanne, France): Theoretical thermogravimetric analysis at constant heating rates. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6-12, 1980*, Birkhauser Verlag, Basel (1980) I, 51
- COMMISSION ON ANALYTICAL NOMENCLATURE: Nomenclature for thermal analysis. II and III. *Pure Appl. Chem.* 52 (1980) 2385
- CORDOVILLE, C. G., LOUIS, E. (I and D Prod. Endasa, Dept. Met. Fis., Alicante, Spain): Investigation of the decomposition of the solid solution of a commercial Al—Zn—Mg alloy (7015) by means of DTA, hardness and conductivity measurements. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6-12, 1980*, Birkhauser Verlag, Basel (1980) I, 421
- COUTOULI-ARGYROPOULOU, E., ALEXANDROU, N. E. (c/o N. E. Alexandrou, Aristotelian Univ. Salonia, Organ. Chem. Lab.,

- Salonika, Greece): Thermal decomposition of silver salts of aryldinitromethanes in the presence of unsaturated systems. Possible formation of arylnitrocarbenes. *J. Org. Chem.* 45 (1980) 4158
- CRAFTREE, D. J. (Northrop Corp., Hawthorne, Calif., 90250 USA): Quantitative analysis of resin matrix aging by gel permeation chromatography and differential scanning calorimetry. *Symp. on Resins for Aerospace held at the 177th Amer. Chem. Soc. Nat. Meeting, Honolulu, HI, April 3–6, 1979, Amer. Chem. Soc. Washington, (1980) 459*
- CRIADO, J. M., MORALES, J. (Univ. Seville, Fac. Quim. Inorgan., Seville, Spain): On the evaluation of kinetic parameters from thermogravimetric curves. *Thermochim. Acta* 41 (1980) 125
- CRIADO, J. M. (CSIC, Fac. Quim., Dept. Quim. Inorgan., Seville, Spain): Determination of the mechanism of thermal-decomposition reactions of solids by using the cyclic and constant decomposition rate thermal analysis method. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6–12, 1980, Birkhauser Verlag, Basel* (1980) I, 145
- CRIGHTON, J. S., LI, K. M. (Univ. Bradford, Bradford BD7 1DP, W. Yorkshire, England): The treatment of thermoanalytical data for effective presentation. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6–12, 1980, Birkhauser Verlag, Basel* (1980) I, 341
- CURRY, M. J., STEVENS, I. D. R. (I. D. R. Stevens, Univ. Southampton, Dept. Chem., Southampton SO9 5NH, Hampshire, England): The thermal ring opening of 3,3-disubstituted cyclobutenes. *J. Chem. Soc. Perkin Trans. II* (1980) 1391
- CZARNOTA, I. (Polish Acad. Sci., Inst. Phys. Chem., Kasprzaka 44–52, PL-01224 Warszawa, Poland): Calorimetric system for measurement of specific heat capacity of liquids, c_p , at high pressures. *Bull. Acad. Pol. Sci. Ser. Chim.* 27 (1979) 763
- DAGONNIER, R., DUMONT, M., NUYTS, J. (Univ. Etat Mons, Fac. Sci., B-7000 Mons, Belgium): Thermochemical oscillations in surface reactions. *J. Catal.* 66 (1980) 130
- DALE, B. E., TSAO, G. T. (Colorado State Univ., Dept. Agr. and Chem. Engr., Ft. Collins, Colo., 80523 USA): A microcalorimetric study of complex formation between alkaline sodium tartrate and iron(III). *J. Polym. Sci. Polym. Chem. Ed.* 18 (1980) 3163
- DANCY, E. A., NGUYEN-DUY, P. (Inst. Rech. Hydro Québec, Varennes, Québec, JOL 2PO Canada): Calorimetric determination of the thermodynamic properties of the binary eutectics in the NaNO_3 – $\text{Ca}(\text{NO}_3)_2$ and KNO_3 – $\text{Ca}(\text{NO}_3)_2$ systems. *Thermochim. Acta* 42 (1980) 59
- DANILOV, S. V., SURIKOV, V. I., MILLER, I. I., SURIKOV, V. I. (Polytech. Inst., Omsk, USSR): Some peculiarities of phase transitions in vanadium trioxide at low temperatures. *Fiz. Tverd. Tela* 22 (1980) 2511 (in Russian)
- DANILOV, S. V., KRZHALOV, A. V., MAZURENKO, V. G., MASLOV, V. A., SURIKOV, V. I. (S. M. Kirov Polytech. Inst., Sverdlovsk, USSR): Anomalous specific heat of BeO. *Fiz. Tverd. Tela* 22 (1980) 3169 (in Russian)
- DAOU, J. N., VAJDA, P., LUCASSON, A., LUCASSON, P. (Univ. Paris 11, CNRS, Equipe Rech. 720, F-91405 Orsay, France): A resistivity study of the α phase in the system TmH(D) at low temperatures. *J. Less-Common Metals* 74 (1980) 462
- DAS, N. C., DAS, P. B. (c/o P. B. Das, Ravenshaw Coll., Dept. Chem., Cuttack, 753003 Orissa, India): Thermodynamics of NaCl, NaBr and NaNO_3 in dioxane-water mixtures from conductance measurements. *Thermochim. Acta* 41 (1980) 247
- DATTA, P. K., MANLEY, T. R. (Newcastle Polytech., Ellison Pl., Newcastle Tyne NE 1 8ST, Tyne and Wear, England): Thermoanalytical techniques in the assessment of mechanical properties at elevated temperatures of polyesterglass composites. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6–12, 1980, Birkhauser Verlag, Basel* (1980) I, 467
- DAVIDSON, T. E., ROBERTS, C. W. (Clemson Univ., Dept. Text., Clemson, S. C., 29631 USA): Energetics of some bromine-containing aromatic fire retardants from luminescence properties. *J. Appl. Polym. Sci.* 25 (1980) 2439
- DE BOER, F. R., BOOM, R., MIEDEMA, A. R. (Univ. Amsterdam, Naturkundig Lab., NL-1018 XE Amsterdam, Netherlands): Enthalpies of formation of liquid and solid

- binary alloys based on 3d metals. 1. Alloys of scandium, titanium and vanadium. *Physica B* 101 (1980) 294
- DEBRUIJN, T. J. W., DEJONG, W. A., VANDENBERG, P. J. (Delft Univ. Technol., NL-2628 BL Delft, Netherlands): Thermal-decomposition of aqueous manganese nitrate solutions. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6–12, 1980, Birkhäuser Verlag, Basel* (1980) I, 393
- DE LISI, R., GOFFREDI, M., LIVERI, T. (c/o M. Goffredi, Univ. Palermo Ist. Chim. Fis., I-90123 Palermo, Italy): Calorimetric determination of solution enthalpies of liquids with a small mutual solubility at 298.15K. *J. Chem. Soc. Faraday Trans. I*, 76 (1980) 1660
- DEMETRESCU, I., TOMESCU, M. (Natl. Inst. Chem., Chair Phys. Chem. and Electrochem. Technol., Bd. Republ. 13, Bucharest, Romania): Photochemical and thermal behaviour of acrylonitrile-butyl acrylate-vinylidene chloride terpolymer. *Rev. Roum. Chim.* 25 (1980) 729
- DENISOV, V. M., TSAPOVETS'KII, M. I., BES-SONOV, M. I., KOL'TSOV, A. I., KOTON, M. M., KHACHATUROV, A. S., SHCHERBAKOVA, L. M. (Acad. Sci. USSR, Inst. Macromolec. Cpd., Leningrad, USSR): Para-meta isomeric composition of polyamic acid during its thermal cyclization in solid phase. *Vysokomol. Soedin. B*, 22 (1980) 702 (in Russian)
- DEVORET, M., SULLIVAN, N. S., ESTEVE, D., DESCHAMPS, P. (CENS, Serv. Phys. Solide et Resonance Magnet., F-91190 Gif-sur-Yvette, France): Simple thermal conductivity cell using a miniature thin film printed circuit for analysis of binary gas mixtures. *Rev. Sci. Instr.* 51 (1980) 1220
- DHARWADKAR, S. R., KUMBHAR, M. S., CHANDRASEKHARAIAH, M. S., KARKHANAVALA, M. D. (Bhabha Atomic Res. Ctr., Div. Chem., Bombay, 400085 India): Thermal decomposition of lanthanum formate. *J. Inorg. Nucl. Chem.* 42 (1980) 1621
- DIETZ, F. J., DE GROOT, J. J., FRANCK, E. U. (Univ. Karlsruhe, Inst. Phys. Chem., Karlsruhe, GRF): High pressure thermal conductivity measurements of water with AC and DC transient hot-wire methods. *9th Int. Conf. on the Properties of Steam, Tech. Univ. München, GFR, Sept. 10–14, 1979, Pergamon Press Ltd. (Oxford)*, 1980, 425
- DIMITROV, R., HEKIMOVA, A., ASENOV, S., RUSKOV, T., TOMOV, T. (Paisij Hilendarski Univ., Fac. Chem. and Biol., BU-4000 Plovdiv, Bulgaria): Application of Mössbauer spectroscopy in pyritic and copper calcines studies. *Thermochim. Acta* 40 (1980) 349
- DOKKO, W., BAUTISTA, R. G. (Caltech. JET Prop. Lab., Pasadena, Calif., 91103 USA): The high temperature heat content and heat capacity of liquid-copper alloys by levitation calorimetry. *Met. Trans. B* 11 (1980) 511
- DOVGEL, V. V., PAVLENKO, L. I., ZUBRITS-KAYA, D. I. (Lvov Polytech. Inst., Lvov, UkrSSR): Infrared spectroscopic and derivatographic studies of potassium oxopenta-cyanovanadate(IV). *Zh. Neorg. Khim.* 25 (1980) 2441 (in Russian)
- DOVLETOV, K., BIRYUKOVA, I. V., NURYEV, S., ERNIYAZOV, K. (Acad. Sci. TaSSR, Inst. Engn. Phys., Dushanbe, TaSSR): Thermal conductivity and electrophysical properties of solid solutions of the Sb_2Te_3 — Ga_2Te_3 system. *Inorg. Mater. transl. Izv. Akad. Nauk SSSR Neorg. Mater.* 16 (1980)
- DUBOUDIN, J. G., JOUSSEAUME, B., PINET-VALLIER, M. (Univ. Bordeaux, 1 Chim. Organ. Lab., F-33405 Talence, France): Thermal rearrangement of Grignard reagents prepared iron ω -halogenated α -acetylenic alcohols. *Compt. Rend. C* 291 (1980) 77
- EDNEY, E. O., SPENE, J. W., HANST, P. L. (US EPA, Environm. Sci. Lab., Res. Triangle Pk., N. C., 27711 USA): Peroxy nitrate air pollutants. *Symp. on Chem. Biol. Implications of Nitrogenous Air Pollutants, Honolulu, HI, April 1–6, 1979, Ann Arbor, Sci. Publ. (Ann Arbor)*, 1979, 111
- EHM, C., MENZEL, E. (Tech. Univ. Braunschweig, Inst. Phys. B, Grenzflächenphys. Abt., D-3300 Braunschweig, GFR): Thermische Oxidation von kugelförmigen Kupferkristallen in CO_2 . *Z. Phys. Chem.* 121 (1980) 243
- ELLNER, M. (Max Planck Inst., Met. Forsch., Inst. Werkstoffwissensch., D-7000 Stuttgart, 1 GFR): Zusammenhang zwischen strukturellen und thermodynamischen Eigenschaften bei Phasen der Kupferfamilie in den T^{10} — B^1 und T^{10} — B^2 -Systemen. *J. Less-Common Metals* 75 (1980) P5

- EROSHKIN, V. I., SHELKOVNIKOV, V. V., TRONOV, A. B., DURASOV, V. B. (Acad. Sci. USSR, Inst. Organ. Chem., Novosibirsk, 630090 USSR): Thermal decomposition of copper complexes of amino acids. *Zh. Fiz. Khim.* 54 (1980) 2587 (in Russian)
- ESIN, Y. O., VALISHEV, M. G., GELD, P. V., PETRUSHEVSKII, M. S. (S. M. Kirov Polytech. Inst., Sverdlovsk, USSR): Estimation of heats of formation of Fe, Co and Ni binary alloys with titanium in approximations of coherent potential and continued fraction method. *Zh. Fiz. Khim.* 54 (1980) 2267 (in Russian)
- FACTOR, A., ORLANDO, C. M.: Polycarbonates from 1,1-dichloro-2,2-bis (4-hydroxyphenyl)ethylene and bisphenol A: a highly flame-resistant family of engineering thermoplastics. *J. Polym. Sci. Polym. Chem. Ed.* 18 (1980) 2909
- FALK, B. (Pharmacia Fine Chem., Box 175, S-75104 Uppsala, Sweden): Heat capacity and thermodynamic properties of tricyclo-[3.3.2.0^{4,6}]deca-2,7,9-triene (bullvalene) between 5 and 450K. *J. Chem. Thermodyn.* 12 (1980) 967
- FENBY, D. V., KHURMA, J. R., KOONER, Z. S., BLOCK, T. E., KNOBLET, C. M., REEDER, J., SCOTT, R. L. (Univ. Otago, Dept. Chem., Dunedin, New Zealand): Isomer effects in mixtures of hydrocarbons: some experimental excess volumes and enthalpies. *Aust. J. Chem.* 33 (1980) 1927
- FERRO, D., BENCIVENNI, L., TEGHIL, R., MASTROMARINO, R. (Univ. Rome, Ist. Chim. Fis., Ctr. Termodinam. Chim. Alle Alte Temp., I-00185 Rome, Italy): Vapour pressures and sublimation enthalpies of thymine and cytosine. *Thermochim. Acta* 42 (1980) 75
- FINCH, A., GATES, P. N., JENKINSON, M. A. (Univ. London, Royal Holloway Coll., Bourne Lab., Egham TW20 OEX, Surrey, England): Thermochemistry of fluorine compounds. VI. Iodine(V) fluoride. *J. Inorg. Nucl. Chem.* 42 (1980) 1506
- FINLAYSON, D. M., LEIPER, G. A., VINCENT, C. A. (Univ. St. Andrews, Dept. Phys., St. Andrews KY16 9ST, Fife, Scotland): Molar heat capacity of a vitreous solid electrolyte: Ag₃I₄AsO₄. *Solid State Commun.* 36 (1980) 261
- FLOR, G., BJORKSTAM, J. L., VILLA, M. (Univ. Pavia, Ist. Chim. Fiz. ed Elettrochim., I-27100 Pavia, Italy): A thermogravimetric and NMR study of β -aluminas. *Z. Naturforsch. A* 35 (1980) 951
- FOLEY, P., DICOSIMO, R., WHITESIDES, G. M. (c/o G. M. Whitesides, MIT, Dept. Chem., Cambridge, Mass., 02139 USA): Mechanism of thermal decomposition of diisopentyl-bis(triethylphosphine)platinum(II): formation of bis (triethylphosphine)-3,3-dimethylplatinacyclobutane. *J. Amer. Chem. Soc.* 102 (1980) 6713
- FONG, P. H., WONG, S. P., CHEN, D. T. Y. (Chinese Univ. Hong Kong, Dept. Chem., Shatin, Hong Kong): Improvement of differential correction method for evaluation of kinetic parameters from TG curves. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6–12, 1980, Birkhauser Verlag, Basel* (1980) I, 133
- FOSTER, L. M., CHANDRASHEKHAR, G. V., SCARDEFIELD, J. E., BRADFORD, R. B. (IBM Corp., Thomas J. Watson Res. Ctr., Yorktown HTS, N. Y., 10598 USA): Phase diagram of the system Na₂O · · Ga₂O₃—Ga₂O₃ and its relation to the system Na₂O · Al₂O₃—Al₂O₃. *J. Amer. Ceram. Soc.* 63 (1980) 509
- FRANZEN, H. F., HARIHARAN, A. V. (US DOE, Ames Lab., Ames, Ia., 50011 USA): The high-temperature vaporization thermodynamics of lanthanum and yttrium monophosphides as determined by Knudsen effusion. *J. Chem. Thermodyn.* 12 (1980) 975
- FRIESEN, M., BURT, H. M., MITCHELL, A. G. (Univ. British Columbia, Fac. Pharmaceut. Sci., Vancouver, BC, V6T 1W5 Canada): The dehydration of nickel sulfate. *Thermochim. Acta* 41 (1980) 167
- FRIMAN, M. L., LESKELÄ, M., NIINISTÖ, L., AALTO, E., HORKKO, A., POUKARI, J. (Kemira Oy, Harjavalta Plant, POB 13, SF-29201 Harjavalta, Finland): Thermoanalytical study on fertilizer components and their mixtures. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6–12, 1980, Birkhauser Verlag, Basel* (1980) I, 567
- FROHN, A., WESTERDORF, M. (Univ., Stuttgart, Inst. Thermodynam., D-7000 Stuttgart 80, GFR): Measurements of thermal conductivities in water vapour and mixtures of water vapour and nitrogen. *9th Int. Conf.*

- on the Properties of Steam, Tech. Univ. München, GFR, Sept. 10–14, 1979, Pergamon Press Ltd (Oxford) 1980, 417*
- FUBINI, B., GHIOTTI, G., STRADELLA, L., GARRONE, E., MORTERRA, C. (Univ. Turin, Fac. Farm., Ist. Chim. Gen. ed Inorgan., I-10125 Turin, Italy): The chemistry of silica-supported Cr ions: a characterization of the reduced and oxidized forms of chromia/silica catalyst by calorimetry and ultraviolet-visible spectroscopy. *J. Catal.* 66 (1980) 200
- FURUTANI, Y., HONDA, T., MINATO, A., TANNO, K. (Hitachi Ltd., Res. Lab., Hitachi, Japan): Studies of hydrogen production by thermochemical cycles. IV. The decomposition of NH_4I by two step reactions using Ni. *Denki Kagaku (Electrochem. Soc. Japan)* 48 (1980) 560 (in Japanese)
- FYANS, R. L., MAYER, J. S., BRENNAN, W. P. (Perkin Elmer Corp., Norwalk, Conn., 06852 USA): A microcomputer based DTA. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6–12, 1980, Birkhauser Verlag, Basel* (1980) I, 265
- GÁL, S., SZTATISZ, J., FODOR L. (Tech. Univ. Budapest, Inst. Gen. and Anal. Chem., H-1521 Budapest, Hungary): Thermoanalytical investigations on solid-vapour reactions. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6–12, 1980, Birkhauser Verlag, Basel* (1980) I, 189
- GALAZKA, R. R., NAGATA, S., KEESOM, P. H. (Purdue Univ., Dept. Phys., W. Lafayette, Ind., 47907 USA): Paramagnetic-spin-glass-antiferromagnetic phase transitions in $\text{Cd}_{1-x}\text{Mn}_x\text{Te}$ from specific heat and magnetic susceptibility measurements. *Phys. Rev. B* 22 (1980) 3344
- GALLAGHER, P. K. (Bell Tel. Labs. Inc., Murray Hill, N. J., 07974 USA): Some applications of thermal analysis to the communications and electronics industry. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6–12, 1980, Birkhauser Verlag, Basel* (1980) I, 13
- GALLAGHER, P. K., GYÖRGY, E. M. (Bell Tel. Labs. Inc., Murray Hill, N. J. 07974 USA): A comparison of the kinetics for the thermal-decomposition of $\text{Ba}(\text{OH})_2 \cdot \text{H}_2\text{O}$ obtained by TG and EGA techniques. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6–12, 1980, Birkhauser Verlag, Basel* (1980) I, 113
- GARANTI, L., ZECCHI, G. (Univ. Milan, Ist. Chim. Ind. CNR, Ctr. Sintesi e Sereochim. Speciali Sistemi Organ., Via Golgi 19, I-20133 Milan, Italy): Thermochemical behaviour of o-azidocinnamonitriles. *J. Org. Chem.* 45 (1980) 4767
- GARCIACLAVEL, E., GONIELIZALDE, S. (CSIC, Fac. Ciencias Quim., Dept. Quim. Anal., Sec. Termoanal. y Ractiv Solidos, Ciudad Univ., Madrid 3, Spain): Thermoanalytical study of beta-FeOOH obtained by homogeneous precipitation with urea. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6–12, 1980, Birkhauser Verlag, Basel* (1980) I, 577
- GARN, P. D., MENIS, O., WIEDEMANN, H. G. (Univ. Akron, Akron, Ohio, 44325 USA): Temperature calibration in thermogravimetry. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6–12, 1980, Birkhauser Verlag, Basel* (1980) I, 201
- GARNER, C. D., WALTON, I. B., HILLIER, I. H., MACDOWELL, A. A., MITCHESON, G. R., PILCHER, G., CAVELL, K. J. (Univ. Manchester, Dept. Chem., Manchester M13 9PL, Lancashire, England): Electronic structure and thermochemical strength of molybdenum-molybdenum quadruple bonds. *3rd Int. Conf. Chem. and Uses of Molybdenum, Ann Arbor, Mich., August 19–23, 1979, Edit. Climax Molybdenum Co/Ann Arbor* (1979) 9
- GEDDE, U. W., JANSSON, J. F. (Royal Inst. Technol., Dept. Polymer Technol., S-10044 Stockholm 70, Sweden): Determination of thermal oxidation of high density polyethylene pipes using differential scanning calorimetry. *Polym. Test.* 1 (1980) 303
- GERASIMOV, N., STEFANOV, B., ZARKOVA, L. (Inst. Electr., Bd. Lenin 72, BU-1184 Sofia, Bulgaria): Thermal conductivity of monatomic potassium vapour in the range 1200–1900K. *J. Phys. D* 13 (1980) 1841
- GHAFFARI, F., HODD, K. A. (Shiraz Univ., Dept. Mat., Shiraz, Iran): Studies in heterocyclic polymers. VI. A weight-loss study of the formation of polybenzoxazole. *Thermochim. Acta* 41 (1980) 213
- GLASSON, D. R., O'NEILL, P. (Plymouth Polytech., John Graymore Chem. Labs., Plymouth PL4 8AA, Devonshire, England):

- Reactivity of lime and related materials with sulphur dioxide. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6–12, 1980* Birkhauser Verlag, Basel (1980) I, 517
- GOH, S. H. (Nanyang Univ., Dept. Chem., Singapore 2263, Singapore): Characterization of natural rubber/polyisoprene rubber blends by differential scanning calorimetry. *Thermochim. Acta* 41 (1980) 261
- GOLDEN, D. M. (SRI Int., Dept. Chem. Kinet., Menlo Pk., Calif., 94025 USA): Thermochemistry and kinetics of aromatic radicals. *Symp. in Frontiers of Free Radical Chem., Louisiana State Univ., Baton Rouge, La., April 10–11, 1979, Acad. Press, New York* (1980) 31
- GONCHARUK, V. V., PANKRATIEV, Y. D., SCHERBATYUK, N. E. (Acad. Sci. UkrSSR, Inst. Colloid Chem. and Water Chem., Kiev, UkrSSR): Calorimetric studies of aluminosilicate catalysts. I. Heat and entropy of cumene adsorption on Mg-metakaolinite at small surface coverages. *React. Kinet. Catal. Lett.* 14 (1990) 409
- GOTTARDI, V., SCARINCI, G., CARTURAN, G., MARCHETTI, A., FROSINI, V. (Univ. Pisa, Ist. Chim. Ind. e Appl., I-56100 Pisa, Italy): A DSC study of glasses obtained from organometallic gels. *6th Int. Conf. Thermal Anal. Bayreuth, Jul. 6–12, 1980, Birkhauser Verlag, Basel* (1980) I, 493
- GRANZOW, A., SAVIDES, C. (Amer. Cyanamid Co., Div. Chem. Res., Bound Brook, N. J., 08805 USA): Flame retardancy of polypropylene and impact polystyrene: phosphonium bromide/ammonium polyphosphate system. *J. Appl. Polym. Sci.* 25 (1980) 2195
- GRITSAN, N. P., ROGOV, V. A., BAZHIN, N. M., RUSSKIKH, V. V., FOKIN, E. P. (Acad. Sci. USSR, Inst. Chem. Kinet and Combust., Novosibirsk, 630090 USSR): Effect of temperature, medium, and nature of substituents on the thermal stage in the photochromic transformations of 1-methylanthraquinone derivatives. *Bull. Acad. Sci. USSR Div. Chem. Sci. transl. Izv. Akad. Nauk SSSR Khim.* 29 (1980) 76
- GRIVA, V. A., ROZENBAND, V. I. (Acad. Sci. USSR, Inst. Chem. Phys., Moscow, V-71 USSR): Use of anisothermal thermographic method in the studies of kinetics of physicochemical processes. *Zh. Fiz. Khim.* 54 (1980) 2679 (in Russian)
- GUCKELSBERGER, K. (Max Planck Inst. Festkörperforsch., Heisenbergstr. 1, D-7000 Stuttgart, 80 GFR): Low temperature thermal conductivity of OH⁻ and OD⁻ doped LiF single crystals. *J. Phys. Chem. Solids* 41 (1980) 1209
- GUCKELSBERGER, K., DE GOER, A. M. (Phys. Tech. Bundesanstalt, D-3300 Braunschweig, GFR): Low-temperature thermal conductivity of Li₃N. *J. Phys. C* 13 (1980) L767
- GUFAN, Y. M., POPOV, V. P. (Rostov Don State Univ., Rostov, USSR): On the theory of phase transitions described by a fourcomponent parameter of order. *Kristallografiya* 25 (1980) 921 (in Russian)
- GUPALO, M. S., MEDVEDEV, V. K., PALYUKH, B. M., SMEREKA, T. P. (I. Franko State Univ., Lvov, UkrSSR): Structure, work function and thermal stability of sodium films on molybdenum (112) face. *Fiz. Tverd. Tela* 22 (1980) 3201 (in Russian)
- GUPTA, L. C., RAO, U. R. K., VENKATESWARLU, K. S., WANIS, B. R. (Tata Inst. Fundamental Res., Bombay, 400005 India): Thermal stability of CsH₂PO₄. *Thermochim. Acta* 42 (1980) 85
- GYUROV, A. F., POLOMOV, B. M., SHIKHSAL'DOV, M. S. (Acad. Sci. USSR, Inst. Solid State Phys., Chernogolovka, USSR): Calorimetric study of photoplastic effect in CdSe and ZnSe crystals. *Fiz. Tverd. Tela* 22 (1980) 2616 (in Russian)
- GYGAX, R., MEYER, M. W., BROGLI, F. (CIBA Geigy A. G. Cent. Safety Res. Lab., CH-4002 Basel, Switzerland): Differential, scanning calorimetryscope and limitations of its use as a tool for estimating the reaction dynamics of potentially hazardous chemical reactions. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6–12, 1980, Birkhauser Verlag, Basel* (1980), I, 541
- HADRICH, W., KAISERBERGER, E. (Netzsch Gerätebau, D-8672 Selb, GFR): Quantitative phase analysis in the system CaSO₄ · H₂O by TG-DTA methods. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6–12, 1980, Birkhauser Verlag, Basel* (1980) I, 511
- HAGLUND, B. O., LUKS, T. (Sandvik AB Coromant Res. Ctr., POB 42056, S-12612 Stockholm, 42 Sweden): Convection effects in thermogravimetry: significance and corrections. *6th Int. Conf. Thermal Anal.*,

- Bayreuth, Jul. 6–12, 1980, Birkhauser Verlag, Basel* (1980) I, 207
- HÄLDDAHL, L., TOFT SØRENSEN, O. (ASEA Atom Sweden, Västerås, Sweden): Thermal analysis studies of the decomposition of ammonium uranyl carbonate (AUC) under simulated industrial conditions. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6–12, 1980, Birkhauser Verlag, Basel* (1980) I, 499
- HALLE, R., CARIN, V. (JUCEMA, Dept. Res., Zagreb, Yugoslavia): Differential thermal analysis of phosphate-stabilized Ca_2SiO_4 . *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6–12, 1980, Birkhauser Verlag, Basel* (1980) I, 409
- HALONBRENNER, R. (Stadtpolizei, Wissenschaftlich, Zürich, Switzerland): Thermal analysis as an aid to the criminalist. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6–12, 1980, Birkhauser Verlag, Basel* (1980) I, 445
- HANCOCK, R. D., MC DOUGALL, G. J. (Natl. Inst. Met., Private Bag X 3015, Randburg 2125, South Africa): Origin of macrocyclic enthalpy. *J. Amer. Chem. Soc.* 102 (1980) 6551
- HARRIS, J. (Arradcom, Dover, N. J., 07801 USA): A differential thermal analysis investigation to determine the sensitivity of lead azide in various gaseous atmospheres. *Thermochim. Acta* 41 (1980) 1
- HARRIS, J. A., KEATING, E. J., GOYNES, W. R. (USDA SEA, So. Reg. Res. Ctr., New Orleans, La., 70179 USA): Flame-resistant cotton textiles by a continuous photo-curing process. *J. Appl. Polym. Sci.* 25 (1980) 2295
- HASSELMAN, D., LOOSEN, K. (Univ. Bochum, Chem. Abt., D-4630 Bochum, 1 GFR): Reorganizations of strained methylenecycloalkanes. 6. New C_8H_{10} isomers: 2-methylenebicyclo[3.2.0]hept-6-ene and 3-methylenetricyclo[4.1.0.0^{2,7}] heptane. Thermal and metal catalyzed rearrangements. *Angew. Chem. Int. Ed.* 19 (1980) 634
- HEDA, B. D., KHADIKAR, P. V. (Univ. Indore, Dept. Chem., Indore, 452001 India): The thermal decomposition of the Cu(II) complex of 3,5-dinitrosalicylic acid. *Thermochim. Acta* 41 (1980) 257
- HEINTZ, A., LICHTENTHALER, R. N. (Univ. Heidelberg, Inst. Phys. Chem., D-6900 Heidelberg, 1 GFR): Excess enthalpies of liquid alkane mixtures at pressures up to 500 bar. I. Experimental results. *Ber. Bunsen Ges. Phys. Chem.* 84 (1980) 727
- HEINTZ, A., LICHTENTHALER, R. N. (Univ. Heidelberg, Inst. Phys. Chem., D-6900 Heidelberg, 1 GFR): Excess enthalpies of liquid alkane mixtures at pressures up to 500 bar. II. Extension and application of a molecular theory. *Ber. Bunsen Ges. Phys. Chem.* 84 (1980) 890
- HERLEY, P. J., CHRISTOFFERSON, O., TODD, J. A. (SUNY Stony Brook, Dept. Mat. Sci. and Engn., Stony Brook, N. Y., 11794 USA): Microscopic observations of the thermal decomposition of α -aluminium hydride. *J. Less-Common Metals* 73 (1980) 143
- HILPERT, K., GINGERICH, K. A. (KFA Jülich GmbH, Inst. Chem., Inst. Angew. Phys. Chem. 4, Postfach 1913, D-5170 Jülich 1, GFR): Atomization enthalpies of the molecules Cu_3 , Ag_3 , and Au_3 . *Ber. Bunsen Ges. Phys. Chem.* 84 (1980) 739
- HIRAKAWA, K., KEBARLE, P. (Yamanashi Univ., Fac. Engn., Kofu, Yamanashi, 400 Japan): Ion molecule reactions in ethane. Thermochemistry and structures of the intermediate complexes: $\text{C}_4\text{H}_{11}^+$ and $\text{C}_4\text{H}_{10}^+$ formed in the reactions of C_2H_5^+ and C_2H_4^+ with C_2H_6 . *Can. J. Chem.* 58 (1980) 2262
- HITMI, N., CHATAIN, D., LACABANNE, C., DUGAS, J., TROMBE, J. C., REY, C., MONTEL, G. (Univ. Paul Sabatier, CNRS, Phys. Solides Lab. 74, F-31062 Toulouse, France): TSD study of dipolar reorientations in apatites. *Phys. Status Solidi A* 60 (1980) 501
- HOEDT, R. W. M. T., VAN KOTEN, G., NOLTES, J. G. (TNO, Inst. Organ. Chem., POB 5009, NL-3502 JA Utrecht, Netherlands): Group IB organometallic chemistry XXXIV. Thermal behaviour and chemical reactivity of tetranuclear Me_2N -substituted diarylpropenylcopper-copper anion ($\text{Vi}_2\text{Cu}_4\text{X}_2$) and mixed diarylpropenyl/organocopper ($\text{Vi}_2\text{Cu}_4\text{R}_2$) compounds. *J. Organometal. Chem.* 20 (1980) 327
- HOMSHAW, L. G., QUIRK, J. P. (INRA, Stn. Sci. Sol., Route St. Cyr, F-78000 Versailles, France): Sur l'étude par calorimétrie à basse température du comportement de l'eau au voisinage de la surface d'une illite. *Compt. Rend. B* 291 (1980) 77

- HOUSER, T. J., MCCARVILLE, M. E., BIFTU, T. (Western Michigan Univ., Dept. Chem., Kalamazoo, Mich., 49008 USA): Kinetics of the thermal decomposition of pyridine in a flow system. *Int. J. Chem. Kinet.* 12 (1980) 555
- HULEJA, J. (Tech. Univ. Brno, Dept. Chem., FAST VUT, CS-66238 Brno, Czechoslovakia): Measurement methods of the thermochemical quantitative analysis of substances in solutions. *Chem. Listy* 74 (1980) 897 (in Czech)
- HWANG, S. K., MORRIS, J. W.: Discussion of the improvement of cryogenic mechanical properties of Fe-12 Mn and Fe-8Mn steels through thermal-mechanical treatments. Reply. *Met. Trans. A* 11 (1980) 1626
- IHA, K. M., IHA, S. P., JHA, S. N. (Bhagalpur Univ., Dept. Chem., Bhagalpur, 812007 India): Optimal temperature (T_{opt}) for maximal thermal conductivity (K_{max}) of solids at low temperatures. *J. Ind. Chem. Soc.* 57 (1980) 851
- IKEDA, K., GSCHNEIDNER, K. A. (Iwate Univ., Dept. Met., Morioka, Iwate, 020 Japan): Effect of high magnetic fields on the electronic specific heat in the strongly Pauli-paramagnetic compound LuCo₂. *Phys. Rev. Lett.* 45 (1980) 1341
- IKEDA, S., ISHIKAWA, Y. (Natl. Lab. High Energy Phys., Tsukuba, Ibaraki, 30032 Japan): Critical phenomena in amorphous ferromagnetic alloys. I. Specific heat measurement. *J. Phys. Soc. Japan* 49 (1980) 950
- ILLINGER, J. L., SCHNEIDER, N. S., KARASZ, F. E. (USA, Mat. and Mech. Res. Ctr., Div. Polymer Res., Watertown, Mass., 02172 USA): Modified sample pans for use in Perkin-Elmer DSC-2. *Thermochim. Acta* 42 (1980) 51
- INDU, B. D. (Garhwal Univ., Dept. Phys., Srinagar 256174 Uttar Pradesh, India): Low-temperature lattice thermal conductivity of Mg₂Sn, Mg₂Si and Mg₂Ge. *Nuovo Cimento B* 58 (1980) 345
- IRSHINSKY, A. L., CHEREPANOV, V. M. (I. V. Kurchatov Atom Energy Inst., Moscow, USSR): Investigation of phase transitions in iron orthoborate in the vicinity of the Neel point. *Zh. Eksp. Teor. Fiz.* 79 (1980) 1412 (in Russian)
- ISHIBASHI, Y. (Nagoya Univ., Fac. Engn. Synth. Crystal Res. Lab., Chikusa-ku, Nagoya, Aichi, 464 Japan): An interpretation of the isomorphous transition in SnCl · 2 H₂O. *J. Phys. Soc. Jap.* 49 (1980) 619
- ISHIDA, H., IKEDA, R., NAKAMURA, D. (Nagoya Univ., Dept. Chem., Nagoya, Aichi, 464 Japan): Phase transitions of solid methylammonium bromide as studied by DTA and proton magnetic resonance. *Phys. Status Solidi A* 60 (1980) K 115
- ISHIKAWA, H., ISHII, E., UEHARA, I., NAKANE, M. (Govt. Ind. Res. Inst., Ikeda, Osaka, 563 Japan): Studies of thermochemical hydrogen production. VII. Vapor-liquid equilibrium for sulfur dioxide — bromine-hydrobromic acid — sulfuric acid — water system. *Bull. Chem. Soc. Jap.* 53 (1980) 2510
- JAIN, P. C., CHAUBEY, D. (Univ. Delhi, Dept. Phys. and Astrophys., Delhi, 110007 India): Quantitative differential thermal analysis at elevated pressure. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6–12, 1980, Birkhauser Verlag, Basel* (1980) I, 335
- JANITSCH, A., KOMAREK, K. L., MIKLER, J. (Wien Univ., Inst. Inorgan. Chem., A-1010 Wien, Austria): Heat capacities of liquid Au—Sn alloys. *Z. Metallk.* 71 (1980) 629
- JARMONTOWICZ, A., KRZYWOBLOCKALAUROW, R.: Thermal analysis of concrete. *6th Int. Conf. Thermal Anal. Bayreuth, Jul. 6–12, 1980, Birkhauser Verlag, Basel* (1980) I, 363
- JAROSZYK, F. (Med. Acad. Poznań, Dept. Biophys., Fredry 10, PL-61701 Poznań, Poland): Effect of nitroaniline admixture on selected thermal parameters of TGS crystal. *Acta Phys. Pol. A* 58 (1980) 267
- JERE, G. V., SURENDRA, L., KAUSHIK, S. M., GUPTA, M. K. (Indian Inst. Technol., Dept. Chem., New Delhi, 110016 India): Solid state decomposition studies on fluoroperoxo species of transition metals. IX. Kinetics of isothermal decomposition of K₂NbO₂F₅ · H₂O. *Thermochim. Acta* 42 (1980) 115
- JERMAN, Z. (Výzkumný Ustav Anorgan. Chem., Chemopetrol, CZ-40060 Usti nad Labem, Czechoslovakia): Relation between the kinetics and thermodynamics in the endothermic decomposition of solids.

- 6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6–12, 1980, Birkhauser Verlag, Basel (1980) I, 139*
- JESPERSSEN, N. D., DESTEFANO, G. (St. Johns Univ., Dept. Chem., Jamaica, N. Y., 11439 USA): Some aspects of the decomposition of refuse studied by DSC. *Thermochim. Acta* 41 (1980) 237
- KABURAKI, H., KOGURE, Y., HIKI, Y. (Tokyo Inst. Technol., Meguro-ku, Tokyo, 152 Japan): Thermal conductivity, thermal diffusivity and specific heat of lithium fluoride crystals containing dislocations. *J. Phys. Soc. Jap.* 49 (1980) 1106
- KAISERBERGER, E. (Netzsch Gerätebau GmbH, Selb, GFR): Further development and application of a combined system for simultaneous thermal analysis and mass spectrometry. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6–12, 1980, Birkhauser Verlag, Basel (1980) I, 251*
- KALA, C., GUR, I. S., BHATNAGER, H. L. (c/o H. L. Bhatnagar, Kurukshetra Univ., Dept. Chem., Kurukshetra, 132119 Haryana, India): Thermal degradation of cellobiose and phosphorylated cellobiose. *Indian J. Chem. A* 19 (1980) 641
- KALSI, P. C., BASSI, P. S., KHAJURIA, C. M. (Bhabha Atomic Res. Ctr., Div. Radiochem., Bombay, 400085 India): Kinetics of the isothermal decomposition of Cu(II) butyrate. *Thermochim. Acta* 41 (1980) 265
- KARNOWSKY, M. M., BIEFELD, R. M., CLARK, R. P., POWERS, D. A. (Sandia Labs., Albuquerque, N. M., 87185 USA): The Li_2CrO_4 – CaCrO_4 binary phase diagram. *Thermochim. Acta* 40 (1980) 389
- KASHIMA, T., ETOO, K. (Toyobo Co. Ltd., Katata Res. Ctr., 1300–1 Honkatata, Otsu, 52002 Japan): Thermal behaviour of copolymers containing a long aliphatic chain. *Jap. Polym. Sci. Techn.* 37 (1980) 567 (in Japanese)
- KEHLEN, H., HEROLD, F., RADEMACHER, H. J. (TH Carl Schorlemmer, Sekt. Chem., DDR-42 Leuna Merseburg, GDR): Mischungsenthalpien binärer Systeme aus Aminen und Carbonsäuren. *Z. Phys. Chem.* 261 (1980) 809
- KESTIN, J., WAKEHAM, W. A. (Brown Univ., Div. Engn., Providence, R. I., 02912 USA): Calculation of the influence of density on the thermal conductivity of gaseous mixtures. *Ber. Bunsen Ges. Phys. Chem.* 84 (1980) 762
- KHAIRETDINOV, E. F., BOLDYREV, V. V. (Acad. Sci. USSR, Inst. Physicochem. Principles Mineral Ore Proc., Novosibirsk, 630090 USSR): The mechanism of the low-temperature decomposition of NH_4ClO_4 . *Thermochim. Acta* 41 (1980) 63
- KHALIL, A. A., EL-DIDAMONY, H. (Nat'l. Res. Ctr. Cairo, Egypt): Study of the hydration products of the system CaO – Al_2O_3 – SO_3 – SiO_2 with varying CaO mole ratio. *Thermochim. Acta* 40 (1980) 337
- KHALIL, A. M., EL-WAKIL, H. A. (Ain Shams Univ., Fac. Sci., Dept. Chem., Cairo, Egypt): Heats of immersion in relation to water losses of cobalt and nickel-exchanged mordenites. *J. Colloid Interface Sci.* 77 (1980) 479
- KHALIL, A. M., EL-WAKIL, H. A. (Ain Shams Univ., Fac. Sci., Dept. Chem., Cairo, Egypt): Heats of immersion in relation to water losses of copper and manganese-exchanged mordenites. *J. Colloid Interface Sci.* 77 (1980) 483
- KHODOS, M. Y., SLOBODIN, B. V., FOTIEV, A. A., ARAPOVA, I. A., YAKHILEVICK, F. M. (Acad. Sci. USSR, Ural Sci. Ctr., Inst. Chem., Sverdlovsk, USSR): Enthalpy of formation of potassium vanadates. *Inorg. Mater. transl. Izv. Akad. Nauk SSSR Neorg. Mater.* 16 (1980) 344
- KHODOS, M. Y., SLOBODIN, B. V., SURAT, L. L., FOTIEV, A. A. (Acad. Sci. USSR, Ural Sci. Ctr., Inst. Chem., Sverdlovsk, USSR): Standard enthalpies of formation of the bronze $\text{Na}_{2+x}\text{V}_6\text{O}_{16-y}$ of type κ . *Inorg. Mater. transl. Izv. Akad. Nauk SSSR Neorg. Mater.* 16 (1980) 351
- KILLEEN, J. C. (Cent. Elect. Generating Board, Berkeley Nucl. Labs., Cent. Elect. Generat. Board, Berkeley GL 13 9PB, Gloucestershire, England): The measurement of the electron-to-hole mobility ratio in UO_2 and its effect on thermal conductivity. *J. Nucl. Mater.* 92 (1980) 136
- KIMISHIMA, Y. (Hokkaido Univ., Fac. Sci., Dept. Phys., Sapporo, Hokkaido, 060 Japan): Phase transition of the quasi-two dimensional mixed crystal $(\text{CH}_3\text{NH}_3)_2\text{Cu}(\text{Cl}_x\text{Br}_{1-x})_4$. *J. Phys. Soc. Jap.* 49 (1980) 470
- KIMURA, H., ASANO, M., KUBO, K. (Kyoto Univ., Inst. Atom Energy, Uji, Kyoto,

- 611 Japan)- Thermochemical study of the vaporization of $\text{Li}_2\text{O}(\text{c})$ by mass spectrometric Knudsen effusion method. *J. Nucl. Mater.* 92 (1980) 221
- KINOSHITA, A. (Univ. Calif. Irvine, Sch. Engn., Irvine, Calif., 92664 USA): Characterization of glass transition in $\alpha\text{-As}_2\text{Se}_3$ by heat of vaporization. *J. Non-Cryst. Solids* 42 (1980) 447
- KIRICHENKO, N. A., KOREPANOV, A. G., LUK'YANCHUK, B. S. (P. N. Lebedev Phys. Inst., Moscow, USSR): On a change in a screening effect of products of thermal decomposition of materials in a moving medium on exposure to the laser radiation. *Kvant. Elektron.* 7 (1980) 2049 (in Russian)
- KISHIMOTO, K., SUGA, H., SEKI, S. (c/o H. Suga, Osaka Univ., Fac. Sci., Dept. Chem., Toyonaka, Osaka 560, Japan): An on-line automated adiabatic calorimeter in the 12–300K. Heat capacity of cyclohexanol. *Bull. Chem. Soc. Jap.* 53 (1980) 2748
- KISIL', Y. K., KISLITSYN, V. I., KANTEVA, I. A., LEONT'eva, I. A., BERG, N. A., ZHITKOVA, T. N., RYABIN, V. A.: Phase composition of the decomposition products of calcium bichromate trihydrate. *Inorg. Mater. transl. Izv. Akad. Nauk SSSR Neorg. Mater.* 16 (1980) 82
- KISS, G., SEYBOLD, K., MEISEL, T. (Tech. Univ. Budapest, Inst. Gen. and Anal. Chem., H-1521 Budapest, Hungary): Error analysis in thermal purity determinations. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6–12, 1980, Birkhauser Verlag, Basel* (1980) 1, 87
- KLEIN, P. B., NORDQUIST, P. E. R., SIEBENMANN, P. G. (USN, Res. Lab., Washington, D. C., 20375 USA): Thermal conversion of GaAs. *J. Appl. Phys.* 51 (1980) 4861
- KLISSURSKI, D. G., MITOV, I. G., PETROV, K. P. (Bulgarian Acad. Sci., Inst. Gen. and Inorgan. Chem., B-1040 Sofia, Bulgaria): A study of the preparation of solid solutions in the system $\alpha\text{-Fe}_2\text{O}_3$ – Al_2O_3 . *Thermochim. Acta* 41 (1980) 181
- KOCH, E., STILKERIEG, B. (Max Planck Inst. Kohlenforsch. Inst. Strahlenchem., D-4330 Mülheim, GFR): Kinetic characterization of the oscillatory Belousov-Zhabotinsky reaction at linearly increased temperature. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6–12, 1980, Birkhauser Verlag, Basel* (1980) 1, 75
- KODAMA, H., IZUMI, F. (Natl. Inst. Res. Inorgan. Mat., 1–1 Namiki, Nihari Ibaraki, 305 Japan): Crystallization of gamma- Bi_2MoO_6 under hydrothermal conditions. *J. Cryst. Growth* 50 (1980) 515
- KOJIMA, H., FUKUMI, T., FUKUI, K., NAITO, K. (Govt. Ind. Res. Inst., Osaka Midorigaoka 1, Ikeda, Osaka, 563 Japan): Effects of thermal reaction on the boron isotope enrichment in a BCl_3/O_2 mixture by TEA CO_2 laser. *J. Phys. Chem.* 84 (1980) 2528
- KOŁĄCZKOWSKI, A., BISKUPSKI, A. (Polytech. Inst. Wrocław, Inst. Inorgan. Technol. and Mineral Fertil., PL-50370 Wrocław, Poland): Nitric acid and ammonia concentrations as factors controlling the thermal decomposition of ammonium nitrate. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6–12, 1980, Birkhauser Verlag, Basel* (1980) I, 399
- KOLENDA, Z. S., NORWISZ, J., HAJDUK, N. (Stanislas Staszic Acad. Min. and Met., PL-30059 Kraków, Poland): The determination of the straight line correlation factors. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6–12, 1980, Birkhauser Verlag, Basel* (1980) I, 41
- KONDRATOV, V. K., VYKHRYSTYUK, V. G. (Sverdlovsk Coal Chem. Res. Inst., Sverdlovsk, USSR): Derivatography and thermochemistry of water state in zeolites. *Zh. Fiz. Khim.* 54 (1980) 2226 (in Russian)
- KORSHAK, V. V., SOLOV'YEVA, L. K., GRIBOVA, I. A., MAKINA, L. B., KRASNOK, A. P., PETROVSKII, P. V., KOMAROVA, L. I., KULAKOV, V. V., KABANOVA, Y. L. (Acad. Sci. USSR, Inst. Organoelement. Compds., Moscow, V-71 USSR): Study of the thermal oligomerization of difurfurylidene acetone. *Vysokomol. Soedin. A* 22 (1980) 2491 (in Russian)
- KORYTNAYA, F. M., POKROVSKY, A. N., DEGTYAREV, P. A. (M. V. Lomonosov State Univ., Fac. Chem., Dept. Gen. Chem., Moscow, 117234 USSR): Investigation of phase equilibria in the systems K_2SO_4 – $\text{Sc}_2(\text{SO}_4)_3$, Rb_2SO_4 – $\text{Sc}_2(\text{SO}_4)_3$ and Cs_2SO_4 – $\text{Sc}_2(\text{SO}_4)_3$. *Thermochim. Acta* 41 (1980) 141
- KOTKATA, M. F., MAHMOUD, E. A., EL-MOUSLY, M. K. (Ain Shams Univ., Fac. Sci., Dept. Phys., Cairo, Egypt): Kinetics of crystal growth in amorphous solid and

- supercooled liquid TeSe_{20} using DTA and d.c. conductivity measurements. *Acta Phys. Acad. Sci. Hung.* 47 (1979) 345
- KOZYKINA, M. A., FAINBERG, E. Z., PAPKOV, S. P., VARSHAVSKII, V. Y., KUMOK, I. L., KONKIN, A. A. (Khimvolokno Sci. Ind. Assoc., Moscow, USSR): Thermomechanical study of carbon fibers based on polyacrylonitrile and modified by bor. *Vysokomol. Soedin. A* 22 (1980) 2598 (in Russian)
- KRAFTMAKHER, Y. A., KRYLOV, S. D. (Acad. Sci. USSR, Inst. Inorgan. Chem., Novosibirsk, 630090 USSR): Temperature fluctuations and specific heat of tungsten at constant volume. *Fiz. Tverd. Tela* 22 (1980) 3157 (in Russian)
- KRAJEWSKA, A., PIGOŃ, K. (Polytech. Inst. Wrocław, Inst. Organ. and Phys. Chem., PL-50370 Wrocław, Poland): Phase diagrams in the binary systems of 2,4,7-trinitrofluoren-9-one with aromatic and heteroaromatic compounds. *Thermochim. Acta* 41 (1980) 187
- KRAUS, Z., MENTLIK, V. (Coll. Mech. and Elect. Engn., Div. Elect. Machinery, Dept. Electrotechnol., CZ 30614, Plzeň, Czechoslovakia): The new method of the power current electrotechnology — the method of thermal analysis. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6–12, 1980, Birkhäuser Verlag, Basel* (1980) I, 483
- KRILL, G., ABADLI, L., RAVET, M. F., KAPPLER, J. P., MEYER, A. (Lab. Magnétisme et Struct. Electr. Solides, 4 Rue Blaise Pascal, F-67070 Strasbourg, France): Anomalous temperature behaviour of the mixed valence state of CePd_3 studied by XPS. *J. Phys.* 41 (1980) 1121
- KŘÍŽ, J. (Res. Int. Paint Mat., Prague, Czechoslovakia): Non-isothermal kinetics and thermogravimetric analysis of complex reactions. I. Formal and approximate solution of the kinetics of homogenous systems. *Thermochim. Acta* 40 (1980) 427
- KRSTIC, B.: A new apparatus for study of stabilities in horizontal air layers heated from below. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6–12, 1980, Birkhäuser Verlag* (1980) I, 299
- KRUPNIKOV, E. S., ALIEV, F. Y., ABDULLAEV, A. G. (Acad. Sci. AzSSR, Inst. Phys., Baku, AzSSR): Ionic conductivity and phase transition in thin silver telluride films. *Fiz. Tverd. Tela* 22 (1980) 2468 (in Russian)
- KRYLOV, E. A., RABINOVICH, I. B., TSVETKOV, V. G. (N. I. Lobachevskii State Univ., Chem. Res. Inst., Gorki, USSR): Enthalpies of hydration of the salt forms of SG1 carboxylic ionite. *Zh. Fiz. Khim.* 24 (1980) 2709 (in Russian)
- KUKUSHIN, Y. N., FEDOTOVA, G. P. (Lensovet Technol. Inst., Leningrad, USSR): Various trend of thermal isomerization of $[\text{Pt}(\text{C}_4\text{H}_8\text{SO})(\text{NH}_2\text{C}_2\text{H}_4\text{OH})\text{X}_2]$ type chloride and iodide complexes. *Zh. Neorg. Khim.* 25 (1980) 2482 (in Russian)
- KUMAR, S., KAUSHIK, N. K. (Univ. Delhi, Dept. Chem., Delhi, 110007 India): Tris-N(ethyl, m-tolyl) dithiocarbamate complexes of arsenic(III), antimony(III) and bismuth(III). *Thermochim. Acta* 41 (1980) 19
- KURATA, Y., IKAWA, K., IWAMOTO, K. (Japan Atomic Energy Res. Inst., Tokai, Ibaraki, 31911 Japan): The effect of heat treatment on density and structure of SiC. *J. Nucl. Mater.* 92 (1980) 351
- KURPUWEIT, U., WAPPLER, E. (WC Heraeus GmbH, Hanau, GFR): DSC measurements on the effect of additives in cutting oils. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6–12, 1980, Birkhäuser Verlag, Basel* (1980) I, 571
- LADZIŃSKA-KULIŃSKA, H. (Tech. Univ. Łódź, Inst. Gen. Chem., PL-90924 Łódź, Poland): Kinetic parameters of the thermal decomposition reactions of alkali metal thiocyanatothiocarbamidobismuthates(III). *Thermochim. Acta* 42 (1980) 99
- LAJUS, L. A., TSAPOVETSKII, M. I. (Acad. Sci. USSR, Inst. Macromolec. Cpd., Leningrad, USSR): The cell model of the thermal cyclization of polyamid acids in a solid phase. *Vysokomol. Soedin A* 22 (1980) 2265 (in Russian)
- LANDAU, R., WÜRFINGER, A. (c/o A. Würfinger, Ruhr Univ. Bochum, Lehrstuhl Phys. Chem. 2, D-4630 Bochum, GFR): PVT-data of acetonitrile. Undecane and dodecane to 3Kbar and -5°C . Pressure dependence of the transition volumes, enthalpies and entropies. *Ber. Bunsen Ges. Phys. Chem.* 84 (1980) 895
- LANFRANCHI, M., MANOTTI LANFREDI, A. M., TIRIPICCHIO, A., MONACI, A., TARLI, F.

- (Univ. Parma, Ist. Chim. Gen., CNR Ctr. Studio Strutturist. Diffrattometr., I-43100 Parma, Italy): Thermal behaviour and crystal structure of dichlorobis(methyl 2-methyldithiocarbazate- N^2S) cobalt (II) - methyl 2-methyldithiocarbazate(2/1), [Co-{NH₂NMeC(-S)SMe}₂]Cl₂ · 0.5[NH₂NMeC(-S)SMe]. *J. Chem. Soc. Dalton Trans.* (1980) 1893
- LARRAIN, J. M. (Columbia Univ., Henry Krumb Sch. Mines, New York, N. Y., 10027 USA): High temperature thermodynamic properties of iron-nickel alloys. *Calphad* 4 (1980) 155
- LARTIQUE, C., PERCHERON-GUÉGAN, A., ACHARD, J. C., TASSET, F. (CNRS, Chim. Met. Terres Rares, 1, Pl. Aristide Briand, F-13274 Marseille, 02 France): Thermodynamic and structural properties of LaNi_{5-x}Mn_x compounds and their related hydrides. *J. Less-Common Metals* 75 (1980) 23
- LAUTRUP, B., NAUENBERG, M. (Niels Bohr Inst., 2100 Copenhagen, Denmark): Correlations and specific heat of the SU(2) lattice Gauge model. *Phys. Rev. Lett.* 45 (1980) 1755
- LEPARLOUER, P. (Setaram, Lyon, France): Open system DSC. A new approach of isothermal investigations. *6th Int. Conf. Thermal Anal.*, Bayreuth, Jul. 6-12, 1980, Birkhauser Verlag, Basel (1980) I, 169
- LEQUAN, M., BESACE, Y., POLLER, R. C. (Ecole Natl. Super Chim. Paris, F-75230 Paris, France): Stabilization thermique du PVC. Relation structure-efficacité mode d'action des stabilisants organostanniques. *Eur. Polym. J.* 16 (1980) 1109
- LEVINSON, Y. B. (LD Landau Theoret. Phys. Inst., Moscow, USSR): Nonlocal phonon heat conductivity. *Zh. Eksp. Fiz.* 79 (1980) 1394 (in Russian)
- LINDE, J. O., RAPP, O. (Royal Inst. Technol., Dept. Solid State Phys., S-10044 Stockholm, 70 Sweden): Experimental study of the temperature and pressure dependence of the electrical resistivity of some MnCu alloys. *Phys. Scr.* 22 (1980) 538
- LIPATOV, Y. S., NESTEROV, A. Y., IGNATOVA, T. D. (Acad. Sci. UkrSSR, Inst. Chem. Macromolec. Cpd., Kiev, UkrSSR): Some features of concentrations and temperature dependence for parameters of thermodynamical interaction between components in blends of oligomers and polymer homologues. *Vysokomol. Soedin. A* 22 (1980) 2284 (in Russian)
- LIPTAY, G., LIGETHY, L., BRANDT-PETRIK, E. (Tech. Univ. Budapest, Dept. Inorgan. Chem., H-1521 Budapest, Hungary): Thermal investigation of polyethylene and in power cables. *6th Int. Conf. Thermal Anal.*, Bayreuth, Jul. 6-12, 1980, Birkhauser Verlag, Basel (1980) I, 427
- LIPTAY, G., LIGETHY, L., NAGY, J. (Tech. Univ. Budapest, Dept. Inorgan. Chem., H-1521 Budapest, Hungary): Thermal analysis of RTV silicone rubbers used in high voltage cable accessories. *6th Int. Conf. Thermal Anal.*, Bayreuth, Jul. 6-12, 1980, Birkhauser Verlag, Basel (1980) I, 477
- LITOVSKII, M. A., MALKOVICH, R. S. (A. F. Ioffe Engn. Phys. Inst., Leningrad, USSR): An approximate solution to a nonlinear diffusion equation thermal conduction. *Zh. Tekhn. Fiz.* 50 (1980) 2007 (in Russian)
- LOMBARDI, G. (Ist. Mineral and Petrograf., Citta Univ., I-00185 Roma, Italy): Thermal analysis in earth sciences. *6th Int. Conf. Thermal Anal.*, Bayreuth, Jul. 6-12, 1980, Birkhauser Verlag, Basel (1980) I, 583
- LÖNVIK, K., RAJESHWAR, K., DUBOW, J. B. (c/o K. Rajeshwar, Colorado State Univ., Dept. Elect. Engn., Ft. Collins, Colo., 80523 USA): New observations on chemical and structural transformations in Green River oil shales. *Thermochim. Acta* 42 (1980) 11
- LUDWIG, W. (Univ. Jena, Dept. Chem., DDR-69 Jena, GDR): Application of area-thermocouples in the thermal analysis of amorphous thin films. *6th Int. Conf. Thermal Anal.*, Bayreuth, Jul. 6-12, 1980, Birkhauser Verlag, Basel (1980) I, 293
- LUSHINGTON, K. J., KASTING, G. B., GARLAND, C. W. (MIT, Dept. Chem., Cambridge, Mass., 02139 USA): Calorimetric investigation of a reentrant-nematic liquid-crystal mixture. *Phys. Rev. B* 22 (1980) 2569
- MAESONO, A., ICHIHASI, M., TAKAOKA, K., KISHI, A. (Sinku Riko Co. Ltd., Midori-ku, Yokohama, 226 Japan): Isothermal thermogravimetric analyzer using infrared image furnace and microcomputer system. *6th Int. Conf. Thermal Anal.*, Bayreuth, Jul.

- 6–12, 1980, *Birkhauser Verlag, Basel* (1980) I, 195
- MAESONO, A., ICHIHASI, M., KISHI, A., TAKAOKA, K., HARA, Z., AKECHI, K. (Sinku Riko Co. Ltd., Midori-ku, Yokohama, 226 Japan): Microcomputer-controlled dilatometer with infrared rapid heating system and its application. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6–12, 1980, Birkhauser Verlag, Basel* (1980) I, 219
- MAKITRA, R., PIRIG, Y. (Acad. Sci. UkrSSR, Inst. Mineral Fuel Geol. and Geophys., Lvov, UkrSSR): Solvent effects on the organic complexes. I. Enthalpies of the formation of iodine complexes with organic solvents. *Org. React. transl. Reakt. Spos. Org. Soedin.* 16 (1980) 495
- MALHOTRA, S. L., LESSARD, P., MINH, L., BLANCHARD, L. P. (Univ. Laval, Fac. Sci. et Génie, Dept. Génie Chim., Québec City, Québec, G1K 7P4 Canada): Thermal decomposition and glass transition temperature study of poly-p-isopropylstyrene. *J. Macromol. Sci. A* 14 (1980) 915
- MAMEDOV, K. P., GADZHIEV, M. F., SULEIMANOV, Z. I., NURIEVA, Z. D. (Acad. Sci. AzSSR, Inst. Phys., Baku, AzSSR): An X-ray and thermographic investigation of the $\alpha \rightarrow \beta$ phase transition in Ag_2S . *Inorg. Mater. transl. Izv. Nauk SSSR Neorg. Mater.* 16 (1980) 241
- MARIK-KORDA, P. (Tech. Univ. Budapest, Inst. Gen. and Anal. Chem., H-1521 Budapest, Hungary): Water determination by DIE method. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6–12, 1980, Birkhauser Verlag, Basel* (1980) I, 529
- MARKOSYAN, A. S. (M. V. Lomonosov State Univ., Moscow, 117234 USSR): Specific heat anomalies and distortion of TbMn_2 and TbN_2 crystalline structure. *Fiz. Tverd. Tela* 22 (1980) 3454 (in Russian)
- MAROTTA, A., BURI, A., BRANDA, F. (Univ. Napoli, Fac. Ingn., Ist. Chim., I-80125 Naples, Italy): Surface and bulk crystallization in non-isothermal devitrification of glasses. *Thermochim. Acta* 40 (1980) 397
- MARTI, E., GEOFFROY, A., RONDORF, B. F., SELAGIEWICZ, M. (CIBA Geigy A. G., Cent. Funct. Res., CH-4002 Basel, Switzerland): Partial pressure measurement by the flow method. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6–12, 1980, Birkhauser Verlag, Basel* (1980) I, 305
- MARUTA, M., KUNIMATSU, A., YAMADA, K.: High-sensitivity multichannel DTA apparatus. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6–12, 1980, Birkhauser Verlag, Basel* (1980) I, 259
- MASSE, J., CHAUDET, A., SALIN, J. P., PUISIEUX, F., DUCHENE, D. (Fac. Pharm. Montpellier, Chim. Gen. et Minerale Lab., F-34060 Montpellier, France): Etude des transformations polymorphiques de la sulfaguanidine au cours de la compression. *Thermochim. Acta* 40 (1980) 377
- MATSUO, H. (Tokai Res. Estab., Japan Atomic Energy Res. Inst., Tokai, Ibaraki, Japan): The effect of residual strain on the thermal conductivity of nuclear graphite. *J. Nucl. Mater.* 92 (1980) 39
- MCNEILL, I. C. (Univ. Glasgow, Dept. Chem., Glasgow, G12 8QQ Scotland): The use of subambient thermal volatilisation analysis to study volatile products of polymer degradation. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6–12, 1980, Birkhauser Verlag, Basel* (1980) I, 319
- MELLANDER, B. E., BOWLING, J. E., BARANOWSKI, B. (Chalmers Univ. Technol., Dept. Phys., S-41296 Goteborg, Sweden): Phase diagram of silver iodide in the pressure range 2.5–10 Kbar and the temperature range 4–330°C. *Phys. Scr.* 22 (1980) 541
- MENTLIK, V., KRAUS, Z. (Coll. Mech. and Elect. Engn., Div. Elect. Machinery, Dept. Electrotechnol., CZ-30614 Plzen, Czechoslovakia): Objective determination of the state of insulations by the difference thermal analysis. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6–12, 1980, Birkhauser Verlag, Basel* (1980) I, 489
- MEYER, G., SCHÖNEMUND, A. (Univ. Giessen, Inst. Anorgan. und Analyt. Chem., D-6300 Giessen, FRG): Zur Kenntnis der Hochtemperatur-Phasenumwandlung bei $\text{Cs}_3\text{Bi}_2\text{Cl}_9$. *Z. Anorg. Allg. Chem.* 468 (1980) 185
- MEYER, G., SCHWAN, E. (Univ. Giessen, Inst. Anorgan. und Analyt. Chem., D-6300 Giessen, FRG): On the thermal trimorphism of KGaCl_4 . *Z. Anorg. Allg. Chem.* 468 (1980) 82
- MIKHAILOV, Y. I., LOMOVSKII, O. I., LUSHNIKOV, A. Y. (Acad. Sci. BeSSR, Inst. Physicochem. Principles Mineral, Proc., Minsk, BeSSR): Influence of preliminary

- ultraviolet irradiation on thermal decomposition of copper hypophosphite. *Zh. Fiz. Khim.* 54 (1980) 2583 (in Russian)
- MILLER, R., DAWSON, G. (Perkin Elmer Corp., 10805 Sunset Off Dr., St. Louis, Mo, 63127 USA): Characterization of hydrocarbon waxes and polyethylenes by DSC. *Thermochim. Acta* 41 (1980) 93
- MOHLER, H., GAULER, K. D., HENIG, A., JANIK, G., JATH, M. (Fach. Hsch. Würzburg Schweinfurt, Fachrichtung Kunststofftech., Würzburg Schweinfurt, GFR): Thermoanalytical characterization of curing behaviour of clear varnishes. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6-12, 1980, Birkhauser Verlag, Basel* (1980) I, 453
- MOKHLISSE, A., BERTRAND, G., LALLEMAND, M., ROUDERGUES, N. (Fac. Sci. Dijon, Rech. Reactiv Solides Lab., F-21000 Dijon, France): Characteristics of interface endothermic reactions reconsidered from a few simple experiments. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6-12, 1980, Birkhauser Verlag, Basel* (1980) I, 81
- MOLL, J., KRUG, D., ZEPF, D. (c/o D. Krug, Tübingen, Inst. Anorgan. Chem., D-7400 Tübingen, 1 GFR): A comparison of different methods for the estimation of kinetic data. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6-12, 1980, Birkhauser Verlag, Basel* (1980) I, 57
- MORTIMER, C. T., WATERHOUSE, J. (Univ. Keele, Dept. Chem., Keele ST5 5BG, Staffordshire, England): Enthalpy of combustion of diphenyl diselenide. *J. Chem. Thermodyn.* 12 (1980) 961
- MOSES, D., DENENSTEIN, A., PRON, A., HEEGER, A. J., MACDIARMID, A. G. (Univ. Penn., Dept. Phys., Res. Struct. Matter Lab., Philadelphia, Pa., 19104 USA): Specific heats of pure and dope polyacetylene. *Solid State Commun.* 36 (1980) 219
- MOTOV, S. A., DANILINA, L. I., PRAVEDNIKOV, A. N. (L. Y. Karpov Physicochem. Res. Inst., Moscow, USSR): Thermal degradation of aromatic polyesters. *Vysokomol. Soedin. A* 22 (1980) 2330 (in Russian)
- MOURAD, W. E., NASHED, S. (Natl. Res. Ctr., Surface Chem. Lab. Cairo, Egypt): Mechanism of dehydration of magnesium oxalate dihydrate. *Thermochim. Acta* 41 (1980) 117
- MUKAI, S., GONDA, S., SHINDO, M., YAMASHILA, T., FUJIMOTO, A. (Electrotech. Lab., 1-1-4 Umezono, Sakura, Ibaraki, Japan): An LPE growth method to reduce thermal degradation of substrates. *Jap. Appl. Phys.* 19 (1980) 1571
- MUKHOPADHYAY, S., NAYAK, B.: Acid dissociation constants of m-toluidinium and p-anisidinium ions in formamide at different temperatures. *Thermochim. Acta* 40 (1980) 433
- MULOKOZI, A. M. (Univ. Dar es Salaam, Dar es Salaam, Tanzania): An alloying theory of transition metals with p-block elements. II. A theoretical treatment of the heats of formation and other properties of rare earth arsenides and bismuthides. *J. Less-Common Metals* 75 (1980) 125
- MURARKA, S. P., CHANG, C. C. (Bell Tel. Labs. Inc., Murray Hill, N. J., 07974 USA): Thermal oxidation of hafnium silicide on silicon. *Appl. Phys. Lett.* 37 (1980) 639
- MURASE, Y., KATO, E. (Govt. Ind. Res. Inst., Kita-ku, Nagoya, 462 Japan): Thermal changes in texture of aggregates of ultra-fine crystallites in hydrolysed zirconia particles. *J. Cryst. Growth* 50 (1980) 509
- MURAT, M., GALTIER, P., GUILHOT, B., NEGRO, A. (Inst. Natl. Sci. Appl. Lyon, Chim. Phys. Appl. et Environm. Lab., Bat 404, 20 Ave. Albert Einstein, F-69621, Villeurbanne, France): Isotherm calorimetric study of the influence of temperature on the hydration reaction of monocalcium aluminate. *Comp. Rend. C* 291 (1980) 113
- MURRAY, J. J., POST, M. L., TAYLOR, J. B. (Natl. Res. Council Canada, Div. Chem., Ottawa, Ontario, K1A OR6 Canada): Differential heat flow calorimetry of the hydrides of intermetallic compounds. *J. Less-Common Metals* 73 (1980) 33
- MUTEAU, L., CAZE, C., LOUCHEUX, C. (Univ. Sci. et Tech. Lille, Chim. Macromolec. Lab., F-59655 Villeneuve d'Ascq, France): Autoinflammation et stabilité thermique de le poly(vinyl 4 pyridine) quaternisée.II. Stabilité thermique du bromure de poly-[N(oxo 3 butyl) vinyl 4 pyridinium]. *Eur. Polym. J.* 16 (1980) 1063
- MUTEAU, L., DELFOSSE, L., CAZE, C. (Univ. Sci. et Tech. Lille, Chim. Macromolec. Lab , F-59655 Villeneuve d'Ascq, France):

- Autoinflammation et stabilité thermique de la poly(vinyl 4 pyridine) quaternisée. III. Autoflammination du bromure de poly-[N(oxo 3 butyl)vinyl 4 pyridinium]. *Eur. Polym. J.* 16 (1980) 1069
- NAGATA, S., GALAZKA, R. R., MULLIN, D. P., AKBARZADEH, H., KHATTAK, G. D., FURDYNA, J. K., KEESOM, P. H. (Purdue Univ., Dept. Phys., W. Lafayette, Ind., 47907 USA): Magnetic susceptibility, specific heat, and the spin-glass transition in $Hg_{1-x}Mn_xTe$. *Phys. Rev. B* 22 (1980) 3331
- NAIR, C. G. R., MADHUSUDANAN, P. M. (Univ. Kerala, Dept. Chem., Trivandrum, 695001 Kerala, India): A spline interpolation method to study kinetics from isothermal and nonisothermal thermogravimetry. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6-12, 1980, Birkhauser Verlag, Basel* (1980) I, 127
- NAKA, M. (Tohoku Univ., Iron Steel and Other Met. Res. Inst., Sendai, Miyagi, 980 Japan): The thermal stability and related properties of iron-base glasses. *J. Non-Cryst. Solids* 41 (1980) 71
- NAKANISHI, M., FUJIEDA, S. (Ochanomizu Univ., Bunkyo-ku, Tokyo, 112 Japan): Estimation of instantaneous calorific effect in the heat exchange type of calorimetry. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6-12, 1980, Birkhauser Verlag, Basel* (1980) I, 183
- NANDI, P. N., KHER, V. G., WANKAR, G. B., DESPHANDE, D. A. (Inst. Sci., Dept. Phys., Nagpur, 440001 India): Thermogravimetric analysis of cobalt sulfate. *Thermochim. Acta* 41 (1980) 241
- NASIM, M., WILSON, E. A. (Pakistan Steel Mills Corp. Labs., Karachi, Pakistan): Discussion of the improvement of cryogenic mechanical properties of Fe-12Mn and Fe-8Mn alloy steels through thermal-mechanical treatments. *Met. Trans. A* 11 (1980) 1625
- NGUYEN, T., ZAVARIN, E., BARRAL, E. M. (Arco Chem. Co., Glenolden, Pa., 19036 USA): Differential scanning calorimetry of hydrogen peroxide and hydrogen peroxide treated lignocellulose. I. Ambient pressure conditions. *Thermochim. Acta* 41 (1980) 107
- NIKKURA, M., MORRIS, J. W. (Nippon Kokan KK, Ctr. Tech. Res., Kawasaki, 210 Japan): Thermal processing of ferritic 5Mn steel for toughness at cryogenic temperatures. *Met. Trans. A* 11 (1980) 1531
- NUSSLER, H. D., KUBASCHEWSKI, O. (Rhein. Westfal. TH Aachen, Lehrstuhl Met. Kernbrennstoffe und Theoret. Hüttenkunde, D-5100 Aachen, GFR): Thermochemistry of the system $MgO-NiO$. *Z. Phys. Chem.* 121 (1980) 187
- OEHME, F. (Polymetron A. G., CH-8634 Hombrechtikon, Switzerland): Determination of nitric acid in nitrating mixtures. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6-12, 1980, Birkhauser Verlag, Basel* (1980) I, 523
- OGIHARA, S., KINUGAWA, K., NAKAYAMA, M. (Hitachi Ltd., Res. Lab., Hitachi, 31912 Japan): Electric resistivity of indium(III)oxide-tin(IV)oxide films prepared by thermal decomposition of indium(III)nitrate and tin(IV)nitrate. *J. Chem. Soc. Jap. Chem. Industr. Chem.* (1980) 1345
- O'HARE, P. A. G., FLOTOW, H. E., HOEKSTRA, H. R. (Argonne Natl. Lab., Div. Chem., Argonne, Ill., 60439 USA): Heat capacity (5 to 350K) and recommended thermodynamic properties of barium uranate ($BaUO_4$) to 1100K. *J. Chem. Thermodyn.* 12 (1980) 1003
- OHLENDORF, D., FLOTOW, H. E. (Univ. Münster, Inst. Phys. Chem., D-4400 Münster, GFR): Heat capacities and thermodynamic functions of $LaNi_5$, $LaNi_5H_{0.36}$ and $LaNi_5H_{0.39}$ from 5 to 300K. *J. Less-Common Metals* 73 (1980) 25
- OHLENDORF, D., FLOTOW, H. E. (c/o H. E. Flotow, Argonne Natl. Lab., Div. Chem., Argonne, Ill., 60439 USA): Experimental heat capacities of $LaNi_5$, $\alpha\text{-}LaNi_5H_{0.30}$ and $\beta\text{-}LaNi_5H_{0.30}$ from 5 to 300K. Thermodynamic properties of the $LaNi_5-H_2$ system. *J. Chem. Phys.* 73 (1980) 2937
- OSHIMA, H. (Nat'l. Inst. Res. Inorgan. Mat., Niihari, Ibaraki, 30031 Japan): Phase relations in the system $MgO-V_2O_3-VO_2$ at 1200°C. *J. Amer. Ceram. Soc.* 63 (1980) 504
- OSIPOV, K. A. (A. A. Baikov Met. Inst., Moscow, USSR): Interconnection of standard heat formation of metal oxides and reduced ionization potentials. *Dokl. Akad. Nauk SSSR* 254 (1980) 410 (in Russian)

- OSIPOV, K. A., KOVNERISTYI, I. K., OSIPOV, E. K. (A. A. Baikov Met. Inst., Moscow, USSR): Interrelation between standard heats of formation of rare-earth metal sulfides and reduced ionization potentials. *Dokl Akad Nauk SSSR* 254 (1980) 162 (in Russian)
- OZWALD, H. R. (Univ. Zürich, Inst. Organ. Chem., CH-8057 Zürich, Switzerland): Thermal analysis in inorganic solid state, chemistry. *6th Int Conf. Thermal Anal. Bayreuth, Jul. 6-12, 1980, Birkhauser Verlag, Basel* (1980) I, 1
- OTIN, S., TOMÁS, G., PIERÓ, J. M., VELASCO, I., GUTIÉRREZ LOSA, C. (Univ. Saragossa, Fac. Ciencias, Dept. Quim. Fis. Saragossa, Spain): Thermodynamic properties of organic oxygen compounds. Excess enthalpies for some ester + hexane or + 1-bromohexane, and bromoester + hexane mixtures. *J. Chem. Thermodyn.* 12 (1980) 955
- OTT, H. R., ODONI, W. (Swiss Fed. Inst. Technol., Festkörperphys. Lab., CH-8092 Zürich, Switzerland): Low temperature thermal conductivity of ErRh₄B₄. *Conf. on Superconduct. in d-Band and f-Band Metals, Univ. Calif., San Diego, Ca., June 21-23, 1979, Acad. Press (New York)* 1980, 403
- OTT, J. B., GRIGG, R. B., GOATES, J. R. (Brigham Young Univ., Dept. Chem., Provo, Utah, 84602 USA): Excess enthalpies and excess volumes for n-hexane + 2-methylpentane, + 3 methylpentane and + 2,3 dimethyl butane at 283.15, 298.15 and 313.15K. *Aust. J. Chem.* 33 (1980) 1921
- OZAWA, F., ITO, T., YAMAMOTO, A. (c/o A. Yamamoto, Tokyo Inst. Technol., Resources Utilizat. Res. Lab., Midori-ku, Yokohama, Kanagawa, 227 Japan): Mechanism of thermal decomposition of trans-diethylbis(tertiary phosphine)palladium(II). Steric effects of tertiary phosphine ligands on the stability of diethylpalladium complexes. *J. Amer. Chem. Soc.* 102 (1980) 6457
- PALMER, L. D. (Dept. Def. Def. Sci. and Technol. Org. Mat. Res. Labs., Maribyrnong, Vic. 3032, Australia): Sources of error in thermogravimetry: balance inclination and specimen temperature. *J. Phys. E* 13 (1980) 919
- PANDEY, J. D., PRAJAPATI, S. R. (Univ. Allahabad, Dept. Chem., Allahabad, 211002 Uttar Pradesh, India): Thermal conductivities of binary gas mixtures. *Indian J. Pure Appl. Phys.* 18 (1980) 815
- PARK, J. G., VAIDYA, A. W. (Univ. London, Imperial Coll. Sci. and Technol., London, SW7 2AZ England): Resistive SQUID calorimetry at low temperatures. *J. Low Temp. Phys.* 40 (1980) 247
- PARTON, C., DOLLIMORE, D. (Pilkington Brots Ltd., Res. and Dev. Labs., Ormskirk, L40 5UF Lancashire, England): Thermal studies of contracting gas bubbles in molten glass. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6-12, 1980, Birkhauser Verlag, Basel* (1980) I, 505
- PERRON, W., BAYER, G., WIEDEMANN, H. G. (Mettler Instrumente A. G., CH-8606 Greifensee, Switzerland): A new instrument for simultaneous differential thermal analysis and thermomicroscopy. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6-12, 1980, Birkhauser Verlag, Basel* (1980) I, 279
- PHADNIS, A. B., DESHPANDE, V. V. (Bhabha Atom Res. Ctr., Div. Chem., Bombay, 400085 India): A new method for the determination of the order of reaction for a solid state reaction from the dynamic DTA curve. *Thermochim. Acta* 42 (1980) 109
- PHAN-THIEN, N. (Univ. Sydney, Dept. Mech. Engn., Sydney, NSW 2006, Australia): On the thermal and mechanical properties of slenderfibre reinforced materials at non-dilute concentration. *Int. J. Engr. Sci.* 18 (1980) 1319
- PHAN-THIEN, N. (Univ. Sydney, Dept. Mech. Engn., Sydney, NSW 2006, Australia): On the bulk thermal properties of composite materials: slender nearly-perfect conductors at dilute concentrations. *Int. J. Eng.* 18 (1980) 1325
- PIELICHOWSKI, J., TREBACZ, E., WOLFF, A.: degradation processes of phosphorylated polyvinylcarbazole. *Thermochim. Acta* 42 (1980) 35
- PLATONOVA, N. V., KLIMENTO, I. B., GRACHEV, V. I., SMIRNOV, L. V. (S. M. Kirov Text. and Light Ind. Inst., Leningrad, USSR): The spectroscopic study of the thermooxidative degradation of polyacrylonitrile. *Vysokomol. Soedin. A* 22 (1980) 2464 (in Russian)

- PLEKHANOVA, L. G., NIKIFOROV, G. A., DE JONGE, C., ERSHOV, V. V. (Acad. Sci. USSR, Inst. Chem. Phys., Moscow, V-71 USSR): Phenyl-substituted 1,4-benzoquinone diazides. 4. Thermal decomposition of 2,6-diphenyl-1,4-benzoquinone diazide in oxygen-containing organic solvents. *Bull. Acad. Sci. USSR Div. Chem. Sci. transl. Izv. Akad. Nauk SSSR Khim.* 29 (1980) 121
- POTOK, R. E., POLITZER, P. A., LIDSKY, L. M. (MIT, Ctr. Plasma Fus., Cambridge, Mass., 02139 USA): Ion thermal conductivity in a helical toroid. *Phys. Rev. Lett.* 45 (1980) 1328
- POWELL, E. K., SEARCY, A. W. (Oakland Univ., Rochester, Mich., 48063 USA): The rate activation enthalpy of decomposition of CaCO_3 . *Metal. Trans. B* 11 (1980) 427
- PRADHAN, S. D., PATHAK, G. (Natl. Chem. Lab., Poona, 411008 Maharashtra, India): A simple calorimeter for the heats of mixing study of associated liquids: enthalpy of hydrogen bonded ethanol-butylamine complex. *Proc. Indian Acad. Sci.* 89 (1980) 341
- PRADHAN, S. D., PATHAK, G. (Natl. Chem. Lab., Poona, 411008 Maharashtra, India): Enthalpy of hydrogen bonded alcohol-butyl amine complexes by a simpler calorimetric method. *Proc. Indian Acad. Sci.* 89 (1980) 349
- PRASAD, K. R. K. H. V., SESHAGIRI, V. (SVU, Autonomous Post Grad. Ctr., Dept. Chem., Anantapur, 515003 India): Thermal, infrared and magnetic study of adducts of Cu(II) resacetophenone oximate complex with nitrogen bases. *J. Indian Inst. Sci. B* 62 (1980) 107
- PRASAD, T. P., SWAMI, M. S. R. (Reg. Res. Lab., Bhubaneswar, 751013 India): Kinetic analysis from thermogravimetric traces. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6-12, 1980, Birkhauser Verlag, Basel* (1980) I, 119
- PRATAP, R., GUPTA, R. C., SRIMAL, R. C., ANAND, N. (c/o N. Anand, Cent. Dierge-neeskundig Inst., Rotterdam, 3007 The Netherlands): N-substituted 2-alkyl-3-amino-acrylophenones and 3-alkyl-3-aminoacrylophenones and some related compounds as antiinflammatory agents. *Indian J. Chem. B* 19 (1980) 695
- PRIMAK, R. G., TSSEBENKO, V. A., ALTSHULER, M. A. (All Union Petr. Refining and Petrochem. Ind. Res. and Design Inst., Kiev, UkrSSR): Thermogravimetric study of the process of hydrophilic sorbent dehydration. *Ukr. Khim. Zh.* 46 (1980) 491 (in Russian)
- PRODAN, E. A., PETROVSKAYA, L. I., KORZHhev, V. N. (Acad. Sci. BeSSR, Inst. Gen. and Inorgan. Chem., Minsk, BeSSR): Thermal transitions of $(\text{NH}_4)_3\text{P}_3\text{O}_{10} \cdot 2\text{H}_2\text{O}$. *Inorg. Mater. transl. Izv. Akad. Nauk SSSR Neorg. Mater.* 16 (1980) 89
- PYSIAK, J. J. (Tech. Unic. Warsaw, Inst. Chem., Plock, Poland): Regularities in the kinetics of thermal dissociation of solids. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6-12, 1980, Birkhauser Verlag, Basel* (1980) I, 35
- RADOMSKA, M., RADOMSKI, R. (c/o R. Radomski, Polytech. Inst. Wroclaw, Inst. Organ. and Phys. Chem., PL-50370 Wroclaw, Poland): Calorimetric studies of binary systems of 1,3,5 trinitrobenzene with naphthalene, anthracene and carbazole. I. Phase transitions and heat capacities of the pure components and charge-transfer complexes. *Thermochim. Acta* 40 (1980) 405
- RADOMSKA, M., RADOMSKI, R. (c/o R. Radomski, Polytech. Inst., Inst. Organ. and Phys. Chem., PL-50370 Wroclaw, Poland): Calorimetric studies of binary systems of trinitrobenzene with naphthalene, anthracene and carbazole. II. Phase diagrams. *Thermochim. Acta* 40 (1980) 415
- RAJAN, R., KHARE, R. K. (Indian Inst. Technol., Dept. Phys., Bombay, 400076 India): Thermal expansion of the ceramic system $\text{Pb}_{2-x}\text{Ba}_x\text{Li}_{0.5}\text{Nb}_{1-x}\text{O}_6$. *Indian J. Pure Appl. Phys.* 18 (1980) 809
- RAJESHWAR, K., MRAZ, T., DUBOW, J. (Colorado State Univ., Dept. Elect. Engn., Ft. Collins, Colo., 80523 USA): The utility of simultaneous parameter measurements in thermal analysis. *Thermochim. Acta* 41 (1980) 129
- RAO, B. M. L., MILLIMAN, G. E. (Exxon Res. and Engn. Co., Adv. Energy Syst. Lab., Linden, N. J., 07036 USA): Thermal decomposition of LiSCN. Containing lithium battery electrolyte. *J. Electrochem. Soc.* 127 (1980) 2333
- RASTORGUYEV, Y. L., GRIGORYEV, B. A., ISHKHANOV, A. M. (M. D. Millionshchikov

- Oil Inst., Grozny, USSR): The investigation of heavy water thermal conductivity at high pressures. *9th Int. Conf. on the Properties of Steam, Tech. Univ. München, München GFR, Sept. 10–14, 1979, Pergamon Press Ltd. (Oxford)* 1980, 407
- RAY, H. S. (Indian Inst. Technol., Dept. Met. Engn., Kanpur 208016, Uttar Pradesh, India): Non-isothermal kinetics. A generalized approach. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6–12, 1980, Birkhäuser Verlag, Basel* (1980) I, 555
- REGENASS, W. (CIBA Geigy A. G., CH-4002 Basel, Switzerland): Industrial experience with heat flow calorimetry. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6–12, 1980, Birkhäuser Verlag, Basel* (1980) I, 561
- RELLER, A., OSWALD, H. R. (Univ. Zürich, Inst. Anorgan. Chem, CH-8057 Zürich, Switzerland): Experimental requirements for the determination of kinetics and mechanism for decomposition reactions of solids. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6–12, 1980, Birkhäuser Verlag, Basel* (1980) I, 63
- REMYNUK, P. I., RARENKO, I. M., POLYAK, M. I. (Chernovtsy, State Univ., Chernovtsy, UkrSSR): On temperature dependence expansion coefficient of $\text{Cd}_{1-x}\text{Hg}_x\text{Te}$ solid solution crystals. *Ukr. Fiz. Zh.* 25 (1980) 1398 (in Russian)
- RIGO, M. O., KLEINCLAUSS, J. (Univ. Nancy 1, Thermomagnetisme Lab., F-54037 Nancy, France): Specific heat of Fe_3O_4 . Role played by octahedral Fe^{2+} -ions. *Phil. Mag. B*, 42 (1980) 303
- RIPOCHE, P., ROLIN, M. (Inst. Natl. Sci. Appl. Lyon, 20 Ave. Albert Einstein, F-69621 Villeurbanne, France): Determination of physicochemical characteristics of aqueous concentrated solutions of potassium hydroxide till 180°C. II. Heat capacities and thermic conductivity. *Bull. Soc. Chim.* I (1980) 380
- ROBENS, E. (Battelle Inst. Ev., am Römerhof 35, D-6000 Frankfurt, 90 GFR): Errors in thermogravimetric experiments resulting from adsorption on the counterweight. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6–12, 1980 Birkhäuser Verlag, Basel* (1980) I, 213
- ROGERS, D. W., LING, S. CH., JAMES, A. B. (Long Isl. Univ., Brooklyn Ctr., Dept. Chem. Brooklyn, N. Y., 11201 USA): An UJT-controlled pulse microcalorimeter heating circuit. *Mikrochim. Acta I* (1980) 245
- ROMANKEVICH, O. V., FRENKEL' S. Y. (Kiev Light Ind. Technol. Inst., Kiev, UkrSSR): Equilibrium melting point of polyethylene oxide. *Vysokomol. Soedin. A* 22 (1980) 2416 (in Russian)
- RORDORF, B. F., GEOFFROY, A., SZELAGIEWICZ, M., MARTI, E. (CIBA Geigy A. G., Cent. Funct. Res., CH-4002 Basel, Switzerland): Vapour pressure methods for industrial applications. *6th Int. Conf. Thermal Anal. Bayreuth, Jul. 6–12, 1980, Birkhäuser Verlag, Basel* (1980) I, 313
- ROSSMANITH, E.: Über den Zusammenhang zwischen der mittleren quadratischen Auslenkung $\langle u^2 \rangle$ der Atome in Kristallgitter und der spezifischen Wärme c_v für Zink. Erratum. *Acta Crystallogr. A* 36 (1980) 833
- ROUSSY, G., CHENOT, P., COLIN, P., THIEBAUT, J. M. (Univ. Nancy 1, CNRS, Equipe Rech. 22, Spectroscopie et Tech. Microondes Lab., F-54037 Nancy, France): Contrôle du chauffage microonde des matériaux granules. *Thermochim. Acta* 41 (1980) 225
- SABBAH, R. (CNRS Ctr. Thermodynam. et Microcalorimetrie, 26 Rue 141ème, RIA, F-13003 Marseille, France): Thermodynamique de composés azotes. VII. Etude thermochimique du pyrazole et de l'imidazole. *Thermochim. Acta* 41 (1980) 33
- SABOUNGI, M. L., LIN, P. L., CERISIER, P., PELTON, A. D. (Argonne Natl. Lab., Argonne, Ill., 60439 USA): Computer analysis of phase diagrams and thermodynamic properties of cryolite based systems. I. The AlF_3 – LiF – NaF system. *Met. Trans. B* 11 (1980) 493
- SAIKALI, Y., VERSAUD, P. (Univ. Libanaise, Fac. Sci., CNRS, Chim. Minerale Lab. 1, Beyrouth, Lebanon): Preparation and thermal decomposition of oxalato complexes of titanyl and alkaline metal in the solid state. *Compt. Rend. C* 291 (1980) 57
- SAITO, A., UENO, K. (Tokyo Gakugei Univ., Dept. Chem., Koganei, Tokyo, 184 Japan): The thermal decomposition of neptunium carbonate and sulfate complexes with hexammine Co(II) cation. *J. Inorg. Nucl. Chem.* 42 (1980) 1301

- SAITO, K., YOKUBO, T., MURAKAMI, I. (Hiroshima Univ., Fac. Sci., Dept. Chem., Hiroshima, 730 Japan): On the thermal decomposition of SO_2 diluted in Ar behind reflected shock waves. *J. Chem. Phys.* 73 (1980) 3017
- SAITO, Y., SASAKI, S., MARUYAMA, T. (Tokyo Inst. Technol., Engn. Mat. Res. Lab., Midori-ku, Yokohama, Kanagawa, 227 Japan): Phase study of the praseodymium-oxygen system by the multiple thermal analysis. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6-12, 1980, Birkhauser Verlag, Basel* (1980) I, 415
- SAKUMA, T., HOSHINO, S. (Ibaraki Univ., Fac. Sci., Dept. Phys., Mito, Ibaraki, 310 Japan): The phase transition and the structures of superionic conductor Ag_3SBr . *J. Phys. Soc. Jap.* 49 (1980) 678
- SÁLEH, A. F., MISHO, R. H., DUBEY, K. S. (Univ. Basrah, Coll. Sci., Dept. Phys., Basrah, Iraq): Correction to lattice thermal conductivity due to three phonon normal processes in the presence of dislocations in the frame of the generalized callaway integral. *Acta Phys. Acad. Sci. Hung.* 47 (1979) 325
- SANDBERG, O., BÄCKSTRÖM, G. (Umeå Univ. Dept. Phys., S-90187 Umeå, Sweden): Thermal conductivity and heat capacity of liquid and glassy poly(vinyl acetate) under pressure. *J. Polym. Sci. Polym. Phys. Ed.* 18 (1980) 2123
- SANDHU, R. S., GANDHI, J. S., KALIA, R. K. (Guru Nanak Dev. Univ., Dept. Chem., Amritsar, 143005 Punjab, India): Thermodynamic stability constants of some complexes of lanthanides with 2-amino nicotinic acid. *Thermochim. Acta* 42 (1980) 95
- SASTRY, S. B. S., SAPRU, S. (Indian Inst. Technol., Dept. Phys., Madras, 600036 India): Thermoluminescence in single crystals of $\text{RbBr} : \text{OH}^-$ and $\text{RbBr} : \text{Ca}^{2+}$. *Pramāna* 15 (1980) 271
- SATO-TOSHIMA, T., SAKIYAMA, M., SEKI, S. (c/o M. Sakiyama, Osaka Univ., Fac. Sci., Dept. Chem., Toyonaka, Osaka, 560 Japan): Thermochemical estimation of destabilization energies of 1,2-1,3-1,4-dicyanobenzenes due to interactions between substituents. Appendix: dipole moments in solution of the dicyanobenzenes. *Bull. Chem. Soc. Jap.* 53 (1980) 2762
- SAVIN, V. D., MIKHAILOVA, N. P. (Moscow Rare Met. Ind. Res. Ind., Moscow, USSR): Thermochemistry of calcium interaction with cerium and neodymium chlorides in melts. *Zh. Fiz. Khim.* 54 (1980) 2246 (in Russian)
- SAWHNEY, S. S., BHATIA, B. M. L. (Dav. Postgrad. Coll., Dept. Chem., Dehra Dun, India): Stability constants and thermodynamic functions of yttrium(III), rhodium(III), indium(III), samarium(III), gadolinium(III), and dysprosium(III) with lapa-chol [2-hydroxy-3(3-methyl-2-butenyl)-1,4-naphthoquinone]. *Thermochim. Acta* 42 (1980) 105
- SCHEFFERS-SAP, M. M. E., BUCK, H. M. (Eindhoven Univ. Technol., Dept. Organ. Chem., Eindhoven, Netherlands): Effect of hydration and ribose puckering on the enthalpy of hydrolysis of cyclic adenosine 3',5'-monophosphate. A quantum-chemical study. *J. Amer. Chem. Soc.* 102 (1980) 6422
- SCHULZE, K., RICHTER, F., MÜHLSTADT, M. (Karl Marx Univ., Sekt. Chem., DDR-7010 Leipzig, GDR): Thermal rearrangement of gamma-chloroallylxanthogenates. *Z. Chem.* 20 (1980) 297
- SEIFULLINA, I. I., KRAVCHENKO, T. P., SUPONITSKY, Y. L. (I. I. Mechnikov State Univ., Odessa, UkrSSR): Thermochemical study of solvates on the base of alkali-earth metal acetates. *Ukr. Khim. Zh.* 46 (1980) 475 (in Russian)
- SENICH, G. A., MACKNIGHT, W. J.: Fourier transform infrared thermal analysis of a segmented polyurethane. *Macromolecules* 13 (1980) 1324
- SEROV, S. I., ZHURAVLEV, M. V., SASS, V. P., SOKOLOV, S. V. (S. V. Lebedev Synthet. Rubber Res. Inst., Leningrad, USSR): Thermal decomposition of perfluoralkanoyl peroxides in hydrocarbon solvents. *Zh. Org. Khim.* 16 (1980) 1603 (in Russian)
- SESTAK, J. (Czechoslovak Acad. Sci., Inst. Phys., CS-18040 Prague 8, Czechoslovakia): Kinetic compensation effect. Facts and fiction of linear plots using Arrhenius law. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6-12, 1980, Birkhauser Verlag, Basel* (1980) I, 29
- SEYFERTH, D., ANNARELLI, D. C., VICK, S. C., DUNCAN, D. P. (MIT, Dept. Chem., Cambridge, Mass., 02139 USA): Hexa-

- methylsilirane. I. Preparation, characterization and thermal decomposition. *J. Organometal. Chem.* 201 (1980) 179
- SEYLER, R. J. (Eastman Kodak Co., Ind. Lab., Rochester, N. Y., 14650 USA): Evaluation of thermal stability. An overview. *Thermochim. Acta* 41 (1980) 55
- SHADIDI, F., FARRELL, P. G., CASELLATO, F., VECCHI, C., GIRELLI, A. (Univ. Toronto, Dept. Chem., Toronto, Ontario, M5S 1A1 Canada): DSC studies on naphthalene styphnates. *Thermochim. Acta* 42 (1980) 121
- SHEDRINA, N. V. (A. A. Zhdanov Polytech. Inst., Gorki, USSR): On temperature anomalies near the phase transition in $RbMnCl_3$ type ferroelastics. *Fiz. Tverd. Tela* 22 (1980) 2554 (in Russian)
- SHENNIKOV, V. V., GAVALESHKO, N. P., GLUZMAN, N. G., PARACHICH, L. D. (Acad. Sci. USSR, Ural Sci. Ctr., Inst. Met. Phys., Sverdlovsk, USSR): Structure phase transition in $Cd_xHg_{1-x}Se$ alloys. *Fiz. Tverd. Tela* 22 (1980) 2868 (in Russian)
- SHIOMI, Y., KURODA, T., OGAWA, T. (Sharp Co, Minoshio Cho, Nara City, Japan): Thermal analysis of a growing crystal in an aqueous solution. *J. Cryst. Growth* 50 (1980) 397
- SIBIRSKAYA, V. V., VOROBEVDESYATOVSKII, N. V., KUKUSHKIN, Y. N., POSTNIKOVA, E. S. (Lensovet Technol. Inst., Leningrad, USSR): Thermal conversion of chloroplatinates(II) with thiuronium cations. *Zh. Neorg. Khim.* 25 (1980) 2486 (in Russian)
- SIGAL, I. S., MANN, K. R., GRAY, H. B. (c/o H. B. Gray, Caltech, Arthur Amos Noyes Lab. Chem. Phys., Pasadena, Calif., 91125 USA): Solar energy storage reactions. Thermal and photochemical redox reactions of polynuclear rhodium isocyanide complexes. *J. Amer. Chem. Soc.* 102 (1980) 7252
- SIKRI, A. K., NARCHAL, M. L. (Punjab Univ., Dept. Phys., Patiala 147002, Punjab, India): Temperature-dependent statistical theory of cross relaxation in nickel-sodium triacetylacetone dioxane. *J. Phys. C* 13 (1980) 5145
- ŠKERJANC, J., REGENT, A., KOCIJAN, L. B. (Edvard Kardelj Univ., Dept. Chem., YU-61000 Ljubljana, Yugoslavia): Heats of mixing of polyelectrolyte and simple electrolyte solutions. *J. Phys. Chem.* 84 (1980) 2584
- ŠKERJANC, J., REGENT, A., PLESNIČAR, B. (Univ. Ljubljana, Dept. Chem., YU-6100 Ljubljana, Yugoslavia): A double reciprocal analysis of calorimetric data for simultaneous determination of equilibrium constants and enthalpies of complex formation: intermolecular hydrogen bonding in peroxy acid-oxygen base complexes in carbon tetrachloride. *J. Chem. Soc. Chem. Commun.* (1980) 1007
- SLACK, G. A. (Umeå Univ., Dept. Phys., S-90187 Umeå, Sweden): Thermal conductivity of ice. *Phys. Rev. B* 22 (1980) 3065
- SMITH, G., KOCHI, J. K. (Indiana Univ., Dept. Chem., Bloomington, Ind., 47405 USA): Reductive elimination from organometals. Thermal and induced decomposition of arylmethylnickel(II) complexes. *J. Organometal. Chem.* 198 (1980) 199
- SMITH, N. K., STEWART, R. C., OSBORN, A. G., SCOTT, D. W. (US DOE, Bartlesville, Energy Technol. Ctr., Bartlesville, Okla., 74003 USA): Pyrene; vapour pressure, enthalpy of combustion, and chemical thermodynamic properties. *J. Chem. Thermodyn.* 12 (1980) 919
- SMITH, P., LEMSTRA, P. J. (Dutch State Min. Cent. Lab., Geleen, Netherlands): Ultra-high strength polyethylene filaments by solution spinning/drawing: 3. Influence of drawing temperature. *Polymer* 21 (1980) 1341
- SMOLYARENKO, É. M., YAKIMOVICH, V. N. (Acad. Sci. BeSSR, Inst. Solid State Phys. and Semicond. Phys., Minsk, BeSSR): Enthalpy and entropy of formation of $ZnSnAs_2$. *Inorg. Mater. transl. Izv. Akad. Nauk SSSR Neorg. Mater.* 16 (1980) 135
- STACKMAN, R. W. (Celanese Res. Co., Summit, N. J., 07901 USA): Flammability of phosphorus-containing aromatic polyesters — a comparison of additives and co-monomer flame retardants. *Symp. on Modification of Polymers, Honolulu, HI, April 2–6, 1979, Amer. Chem. Soc.* 1980, 425
- STAUDEL, L., THIEL, G., WOHRMANN, H. (Gesamthsch. Kassel, Inst. Chem., FB 19, D-3500 Kassel, GFR): Thermometric titrimetry. A suitable way into thermochemistry. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6–12, 1980, Birkhauser Verlag, Basel* (1980) I, 351

- STEBNICKAKALICKA, I.: Application of thermal analysis to the investigation of phase composition of autoclaved cement pastes and mortars. *6th Int. Conf. Thermal Anal.*, Bayreuth, Jul. 6–12, 1980, Birkhauser Verlag, Basel (1980) I, 369
- STEFANOVICH, S. Y., AVER'YANOVA, L. A., OKONENKO, S. A., KOCHETKOV, V. V., LOPATIN, S. S., VENEVTSIEV, Y. N., BELYAYEV, I. N. (L. Y. Karpov Physicochem. Res. Inst., Moscow, USSR): Phase transitions in crystals of new complex oxides with the pyrochlor structure. *Kristallografiya* 25 (1980) 979 (in Russian)
- STEINAU, U. J., TANNEBERGER, H. (TH Carl Schorlemmer, Sekt. Phys., DDR-42 Leuna-Merseburg, GDR): Analysis of temperature and pressure dependence of entropy during glass formation of polymers. *Z. Phys. Chem.* 261 (1980) 813
- STEINBERG, G. S. (Acad. Sci. USSR, Far E Sci. Ctr. Sakhalin Comprehens. Study Res. Inst., Volcanol Lab., Novoalexandrovsk, USSR): The enthalpy of the heat-carrying fluids and the energy of eruption of velican geyser. *J. Volcanol. Geotherm. Res.* 8 (1980) 267
- STISHOV, S. M. (Acad. Sci. USSR, Inst. Crystallogr., Moscow V-71 USSR): On the question of the specific heat of liquids and dense gases at low temperatures. *JETP Lett. transl. Pizma Zh. Eksp. Teor. Fiz.* 31 (1980) 249
- STOLTENBERG, J., VILCHES, O. E. (Univ. Washington, Dept. Phys., Seattle, Wa., 98195 USA): Heat capacity of O_2 films adsorbed on grafoil. *Phys. Rev. B* 22 (1980) 2920
- STRUKOV, B. A., SIGOV, A. S., FEDORIKHIN, V. A., TARASHKIN, S. A. (M. V. Lomonosov State Univ., Moscow, 117234 USSR): Heat capacity anomalies in γ -irradiated triglycin sulfate crystals. *JETP Lett. transl. Pizma Zh. Eksp. Teor. Fiz.* 31 (1980) 169
- SUFMATSU, H., SUZUKI, M., IKEDA, H. (Univ. Tsukuba, Inst. Mat. Sci., Sakuramura, Ibaraki, 305 Japan): Resistivity and specific heat anomalies in rubidium-intercalated graphite $C_{24}Rb$. *J. Phys. Soc. Jap.* 49 (1980) 835
- SURINACH, S., BARO, M. D., TEJERINA, F. (Univ. Autonoma Barcelona, Fac. Ciencias, Dept. Termol., Bellaterra, Spain): The Ge-Sb-Bi ternary phase diagram. *6th Int. Conf. Thermal Anal.*, Bayreuth, Jul. 6–12, 1980, Birkhauser Verlag, Basel (1980) I, 155
- SYCHEV, N. I., GELD, P. V., KALISHEVICH, G. I., PUTINTSEV, Y. V. (S. M. Kirov Polytech. Inst., Sverdlovsk, USSR): Thermal properties and magnetic state diagram of Mn_5Si_3 – Mn_5Ge_3 system. *Fiz. Tverd. Tela* 22 (1980) 2450 (in Russian)
- SZŁYK, E., GRODZICKI, A. (Nicholas Copernicus Univ., Inst. Chem., PL-87100 Toruń, Poland): Thermal dehydration of Ni(II) salts with hexamethylenetetramine (HMTA) and complex anions. *Polish J. Chem.* 54 (1980) 881
- TAKAGI, T., MATSUBARA, K., TAKAOKA, H. (Kyoto Univ., Dept. Electr., Kyoto 606, Japan): Optical and thermal properties of BeO thin films prepared by reactive ionized cluster beam technique. *J. Appl. Phys.* 51 (1980) 5419
- TAKAHASHI, Y., NAKAGAWA, K., YAMANE, T. (Osaka Univ., Dept. Mat. Sci. and Engn. Osaka, Japan): Stress drop experiments during high temperature creep of an austenitic 25Cr–20Ni stainless steel between 1133 and 1193K. *Z. Metallk.* 71 (1980) 572
- TAKAHASHI, Y., YUKI, R., SUGIURA, M., MOTOJIMA, S., SUGIYAMA, K. (Gifu Univ. Fac. Engn., Dept. Synthet. Chem., Kakamigahara, Gifu, 504 Japan): Vapour deposition of thin cadmium sulfide layers using thermal decomposition of dithiolato cadmium complexes. *J. Cryst. Growth* 50 (1980) 491
- TAKKE, R., ASSMUS, W., LUTHI, B., GOTO, T., ANDRES, K. (c/o B. Luthi, Univ. Frankfurt, Inst. Phys., D-6000 Frankfurt, 70 GFR): Thermal properties of exotic cerium compounds. *Int. Conf. Cryst. Electr. Field and Struct. Effects in F-Electron Syst.*, Philadelphia, Pa., Nov. 12–15, 1979, Plenum Press (New York), 1980, 321
- TANAKA, H., OHSHIMA, S., ICHIBA, S., NEGITA, H. (Hiroshima Univ., Fac. Sch., Educ. Chem. Lab., Hiroshima, 730 Japan): Deuterium isotope effects in the thermal dehydration of boric acid. *Thermochim. Acta* 42 (1980) 43
- TANAKA, M. (Nagoya Univ., Fac. Sci., Analyt. Chem. Lab., Nagoya, Aichi, 464 Japan): Activation enthalpy for the disso-

- ciation of nickel complexes in non-aqueous solvents. *Inorg. Chem.* 19 (1980) 3205
- TANG, T. B. (Univ. Cambridge, Cavendish Lab., Madingley Rd., Cambridge, C83 OHE, England): Analysis of isothermal kinetic data from multi-stage decomposition of solids. *Thermochim. Acta* 41 (1980) 133
- TAŃIEWSKA-OŚIŃSKA, S., PIEKARSKI, H., GÓRALSKI, P. (Univ. Łódź, Inst. Chem., Dept. Phys. Chem., PL-91416 Łódź Poland): Enthalpies of solution of NaI, in iso-butanol and sec-butanol at 298.15 K. *Polish J. Chem.* 54 (1980) 1059
- TANIGUCHI, H., MASUDA, T., TSUTSUMI, K., TAKAHASHI, H. (c/o K. Tsutsumi, Univ. Tokyo, Inst. Ind. Sci., Minato-ku, 7-22-1 Roppongi, Tokyo, 106 Japan): Direct measurement of the interaction energy between solids and gases. VI. Calorimetric studies on acidic properties of solid super acids prepared from silica alumina. *Bull. Chem. Soc. Jap.* 53 (1980) 2463
- TANIGUCHI, M., MORIGUCHI, H., SHIMIZU, S. (Tokyo Inst. Technol., Fac. Engn., Dept. Chem. Engn., Tokyo, 152 Japan): Dehydration of crystallization water in salts using a new designed controlled-water vapor micro DTA. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6-12, 1980, Birkhäuser Verlag, Basel* (1980) I, 163
- TANUTROV, I. N., OKUNEV, A. I.: Kinetics and mechanism of GeO-formation in the high-temperature system Ge—GeO₂. *Russ. Met. transl. Izv. Akad. Nauk SSSR Met.* (1979) 175
- TARASCON, J. M., ISIKAWA, Y., CHEVALIER, B., ETOURNEAU, J., HAGENMULLER, P., KASAYA, M. (Univ. Bordeaux, 1 CNRS, Chim. Solide Lab., F-33405 Talence, France): Temperature dependence of the samarium oxidation state in SmB₆ and Sm₂La₃B₆. *J. Phys.* 41 (1980) 1141
- TARZIMANOV, A. A. (S. M. Kirov Chem. Technol. Inst., Kazan, USSR): Present state of experimental investigations on thermal conductivity of D₂O. *9th Int. Conf. on the Properties of Steam, Tech. Univ. München, München GFR, Sept. 10-14, 1980, Pergamon Press Ltd. (Oxford)*, 1980, 439
- TATARCHENKO, V. A., BRENER, E. A. (Acad. Sci. USSR, Inst. Solid State Phys., Chernogolovka, USSR): Crystallization stability during capillary shaping. I. General theory of capillary and thermal stability. *J. Cryst. Growth* 50 (1980) 33
- TATARENKO, L. A., PUDOV, V. S. (Acad. Sci. USSR, Inst. Chem. Phys., Moscow, V-71 USSR): The effect of alkyl acceptors on the thermal degradation of isotactic polypropylene hydroperoxide. *Vysokomol. Soedin. B* 22 (1980) 671 (in Russian)
- TAYLOR, R. (Univ. Manchester, Inst. Sci. and Technol. Dept., Manchester, M1 7HS England): Construction of apparatus for heat pulse thermal diffusivity measurements from 300—3000 K. *J. Phys. E* 13 (1980) 1193
- THAKUR, L., THAKUR, A. K., AHMAD, M. F. (Bhagalpur, Univ., Postgrad. Dept. Chem., Bhagalpur, 812007 India): Standard heats of formation of diaquodiacetatodioxouranium(VI), tetraacetatouranium(IV), triaquotetraformathorium(VI) and tetraphenyltin(IV). *Indian J. Chem. A* 19 (1980) 793
- TOFT-SØRENSEN, O. (Riso Natl. Lab., DK-4000 Roskilde, Denmark): Densification studies of ceramic powder compacts by quasiisothermal dilatometry. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6-12, 1980, Birkhäuser Verlag* (1980) I, 231
- TOU, J. C., WHITING, L. F. (Dow Chem. Co., Analyt. Labs., Midland, Mich., 48640 USA): A cradle-glass ampoule sample container for differential scanning calorimetric analysis. *Thermochim. Acta* 42 (1980) 21
- TOU, J. C., WHITING, L. F., TOWNSEND, D. I. (Dow Chem. Co., Anal. Labs., Midland, Mich., 48640 USA): Thermal hazard evaluation by an accelerating rate calorimeter. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6-12, 1980, Birkhäuser Verlag, Basel* (1980) I, 177
- TRISCHLER, F., FRISS, J. (G. Richter Chem. Factory, Gyömrői út, H-1921 Budapest, Hungary): Thermometric determination of alkali boron hydrides by the TET method. *Fresenius Z. Anal. Chem.* 30 (1980) 32
- TSAI, R. L., RAJ, R. (Rockwell Inst., Ctr. Sci., Thousand Oaks, Calif., 91360 USA): The role of grain-boundary sliding in fracture of hot-pressed Si₃N₄ of high temperatures. *J. Amer. Ceram. Soc.* 63 (1980) 513
- TSUBAKI, K., SUGIYAMA, K. (Musashino Elect. Commun. Lab., Musashino, Tokyo,

- 180 Japan): Heat treatment of Zn-doped p-type InP. *Jap. J. Appl. Phys.* 19 (1980) 1789
- TSYASHENKO Y. P., KRASNYANSKII, G. E., PINKEVICH, I. P. (T. G. Shevchenko State Univ., Kiev, UkrSSR): Temperature behaviour and attenuation mechanism of high-frequency vibrations in ionic-covalent crystals. *Fiz. Tverd. Tela* 22 (1980) 2481 (in Russian)
- TÜRKEN, P., PLUNTKE, CH., HELBIA, R. (Univ. Erlangen Nürnberg, Inst. Angew. Phys., D-8520 Erlangen, GFR): Thermal conductivity of SnO_2 single crystals. *J. Phys. C* 13 (1980) 4941
- TURSKA, E., ROZYCKA-ROZAK, B. (Polish Acad. Sci., Inst. Polymer Chem., Zabrze, Poland): Application of a thermochemical method for studying a low temperature polycondensation process. *Polymer* 21 (1980) 1190
- UHER, C. (Univ. Michigan, Dept. Phys., Ann Arbor, Mich., 48109 USA): Thermal conductivity of several exfoliated graphites from 2K to 300K. *Cryogenics* 20 (1980) 445
- VANDOOREN, A. A. (Philips Duphar Bv., Weesp, Netherlands): Influence of experimental variables on DSC curves. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6-12, 1980, Birkhauser Verlag, Basel* (1980) I, 93
- VANMAAREN, M. H., OLIJHOEK, J. F., PARLEULIET, C. (Philips Res. Labs., Eindhoven, Netherlands): Increased anomalous low-temperature specific heat of vitreous silica due to helium or neon solutes. *Solid States Commun.* 35 (1980) 867
- VARUSHCHENKO, R. M., PISAREV, V. V., KOTELNIKOVA, T. A. (M. V. Lomonosov State Univ., Moscow, 117234 USSR): Enthalpies and entropies evaporation of some haloalkanes. *Zh. Fiz. Khim.* 54 (1980) 2666 (in Russian)
- VENART, J. E. S., PRASAD, R. C., STOCKER, D. G. (Univ. New Brunswick, Dept., Mech. Engn, Fredericton, N. B., E-385A3 Canada): The thermal conductivity of water and heavy water. *9th Int. Conf. on the Properties of Steam, Tech. Univ. München, München GFR, Sept. 10-14, 1979, Pergamon Press Ltd. (Oxford)* 1980, 392
- VERDAVAINE, P., DELFOSSE, L., LUCQUIN, M., LOUCHEUX, C. (Univ. Sci. et Tech. Lille, Cinet. et Chim. Combust. Lab., F-59655 Villeneuve, d'Asq, France): Autoflammation et stabilité thermique de la poly(vinyl 4 pyridine)quaternisée. I. Cas des poly(vinyl-4, N-alcoyle pyridinium). *Eur. Polym. J.* 16 (1980) 1055
- VERSCHURE, R. H., ANDRIESSEN, P. A. M., BOELRIJK, N. A. I. M., HEBEDA, E. H., MALIER, C., PRIEM, H. N. A., VERDURMEN, E. A. T. (Zuiver Wentenschappelijk Ordezaak, Isotopen Geol. Lab., De Boetelaan 1085, NL-1081 HV Amsterdam, Netherlands): On the thermal stability of Rb-Sr and K-Ar biotite systems: evidence from coexisting sveconorwegian (ca 870Ma) and caledonian (ca 400Ma) biotites in SW Norway. *Contrib. Mineral. Petrol.* 74 (1980) 245
- VILCU, R., PERISANU, S. (Natl. Inst. Chem., Chair Phys. Chem., 1380 Republ., Bucharest, Romania): The ideal gas state enthalpies of formation of some monomers. *Rev. Roum. Chim.* 25 (1980) 619
- VLASOVA, L. V., SAMARIN, B. A., SHUBAKOV, V. S. (Moscow Steel and Alloys Inst., Moscow, USSR): Heat treatment of high-coercivity alloy Kh27K17S. *Metal Sci. Heat Treat.* transl. *Metal. Term. Obr. Met.* 22 (1980) 62
- VORONIN, B. M., PRISYAZHNYI, V. D. (Acad. Sci. UkrSSR, Inst. Gen. and Inorgan. Chem. Kiev, UkrSSR): High-temperature conduction of alkaline-earth fluorides and magnesium fluoride, and the thermodynamic characterization of ionic disorder in the fluoroite. *Sov. Electrochem.* transl. *Elektrokhim.* 16 (1980) 109
- WALSH, D. J., McKEOWN, J. G. (Univ. London, Imperial Coll. Sci. and Technol., Dept. Chem. Engn. and Chem. Technol., London, SW7 2AZ England): Compatibility of polyacrylates and polymethacrylates with poly(vinyl chloride): 1. Compatibility and temperature variation. *Polymer* 21 (1980) 1330
- WALSH, D. J., McKEOWN, J. G. (Univ. London, Imperial Coll. Sci. and Technol., Dept. Chem. Engn. and Chem. Technol., London, SW7 2AZ England): Compatibility of polyacrylates and polymethacrylates with poly(vinyl chloride): 2. Measurement of interaction parameters. *Polymer* 21 (1980) 1335

- WAPPLER, E., KURPUWEIT, U. (W. C. Heraeus GmbH, Hanau, GFR): New control module for DSC, DTA, TMA and TGA. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6-12, 1980, Birkhauser Verlag, Basel* (1980) I, 273
- WARRINGTON, S. B., BARNES, P. A. (Leeds Polytech., Sch. Hlth. and Appl. Sci., Leeds LS1 3HE, W. Yorkshire, England): DTA-EGA using a specific detector. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6-12, 1980, Birkhauser Verlag, Basel* (1980) I, 327
- WATANABE, N., KOYAMA, S., IMOTO, H. (Gunma Univ., Fac. Engn., Dept. Appl. Chem., Kiryu, Gunma, 376 Japan): Thermal decomposition of graphite fluoride. I. Decomposition products of graphite fluoride, (CF)_n, in a vacuum. *Bull. Chem. Soc. Jap.* 53 (1980) 2731
- WEBER, H., GUGGISBERG, U. (Processanalyses, Turgi, Switzerland): Calorimetric analysis of polymer fabrication. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6-12, 1980, Birkhauser Verlag, Basel* (1980) I, 461
- WEIGEL, F., WISHNEVSKY, V., GÖLDNER, R. (Univ. München, Inst. Anorgan. Chem. D-8000 München, 2 GFR): The vapour phase hydrolysis of lanthanide(III) bromides. I. Heat and free energy of the reaction NdBr₃(s) + H₂O(g) ⇌ NdOBr(s) + + 2 HBr(g). *J. Less-Common Metals* 75 (1980) 89
- WESOŁOWSKI, M. (Med. Acad. Gdańsk., Inst. Chem. and Anal., Al. K. Marksza 107, PL-80416 Gdańsk, Poland): The influence of various tablet components on thermal decomposition of some pharmaceuticals. *Mikrochim. Acta* 1 (1980) 199
- WHALL, T. E. (Portsmouth Polytech., Dept. Phys. King Henry 1st, Portsmouth PO1 2DZ, Hampshire, England): Evidence for Anderson localization of the charge in the high-temperature phase of Fe₃O₄. *Phil. Mag. B* 42 (1980) 423
- WILLETT, G. D., BAER, T. (c/o T. Baer, Univ. N. Carolina, Dept. Chem., Chapel Hill, N. C., 27514 USA): Thermochemistry and dissociation dynamics of state-selected C₄H₄X ions. 2. Furan and 3butyn-2-one. *J. Amer. Chem. Soc.* 102 (1980) 6769
- WILLETT, G. D., BAER, T. (c/o T. Baer, Univ. N. Carolina, Dept. Chem., Chapel Hill, N. C., 27514 USA): Thermochemistry and dissociation dynamics of state-selected C₄H₄X ions. 3. C₄H₃N⁺. *J. Amer. Chem. Soc.* 102 (1980) 6774
- WILLIAMS, B. W., VAN HECKE, G. R. (c/o G. R. Van Hecke, Harvey Mudd Coll., Dept. Chem., Claremont, Calif., 91711 USA): Homologous trans-4-ethoxy-4'-ω-cyclohexyl-n-alkanoyl- and trans-4-ethoxy-4'-ω-phenyl-n-alkanoyloxyazobenzenes calorimetry. *J. Phys. Chem.* 84 (1980) 2580
- WINIKER, R., BECKHAUS, H. D., RÜCHARDT, C. (c/o C. Rüchardt, Univ. Freiburg, Chem. Lab., D-7800 Freiburg, GFR): Thermolabile hydrocarbons. XIV. Thermal stability, strain enthalpy, and structure of sym. hexaalkyl-substituted ethanes. *Chem. Ber.* 113 (1980) 3456
- WITTMER, M., LÜTHY, W., von ALLMEN, M. (Brown Boveri Res. Ctr., CH-5405 Baden, Switzerland): The thermal stability of laser-produced silicide layers. *J. Appl. Phys.* 51 (1980) 5386
- WONG, W. K., WESTRUM, E. F. (Uniroyal Inc., 6600E Jefferson, Detroit, Mich., 48232 USA): Thermodynamics of poly-nuclear aromatic molecules. II. Low-temperature thermal properties of perylene, coronene, and naphthacene. *Mol. Cryst. Liquid Cryst.* 61 (1980) 207
- WOOD, B. J., HOLLAND, T. J. B., NEWTON, R. C., KLEPPA, O. J. (Rockwell Inst., Richland, Wash., 99352 USA): Thermochemistry of jadeite-diopside pyroxenes. *Geochim. Cosmochim. Acta* 44 (1980) 1363
- WOOD, I. G., WADHAWEN, Y. K., GLAZER, A. M. (Univ. Oxford, Clarendon Lab., Pk. Rd., Oxford, England): Temperature dependence of spontaneous birefringence in ferroelastic lead orthophosphate. *J. Phys. C* 13 (1980) 5155
- YAKIMOVICH, K. A., MEL'NIKOVA, T. N., TSIRLINA, E. A. (Acad. Sci. USSR, Inst. High Temp., Moscow, V-71 USSR): Caloric properties of the crystal hydride of lithium and its isotopic modification. *High Temp. transl. Teplofiz. Vysok. Temp.* 83
- YAKOVLEV, M. A., SMIRNOVA, V. D., YAKOVLEV, V. M. (V. V. Kuibyshev Polytech. Inst., Kuibyshev, USSR): Charge in the thermoelastic EMF of cobalt after annealing at the $\alpha \rightleftharpoons \beta$ transformation temperature. *Metal Sci. Heat Treat. transl. Metal. Term. Obr. Met.* 22 (1980) 60

- YAMAGUCHI, M., ANDO, K. (Nippon Telegraph and Tel. Publ. Corp., Ibaraki Elect., Commun Labs., Tokai, Ibaraki, 31911 Japan): Thermal oxidation of InP and properties of oxide film. *J. Appl. Phys.* 51 (1980) 5007
- YANO, S. (Ind. Prod. Res. Inst., 1-1-4 Yatabe Machi, Higashi Tsukuba, Ibaraki, 305 Japan): Changes in the dynamic modulus during thermal degradation of polyisoprene vulcanizate. *Rubber Chem. Technol.* 53 (1980) 944
- YATA, J., MINAMIYAMA, T., KIM, T., YOKOGAWA, N., MURAI, H. (Kyoto Univ., Dept. Mech. Engn., Sakyo ku, Kyoto, 606 Japan): Measurement of thermal conductivity of heavy water up to 5000°C and 150MPa. *9th Int. Conf. on the Properties of Steam, Tech. Univ. München, München, GFR, Sept. 10-14, 1979, Pergamon Press Ltd. (Oxford)* 1980, 431
- YOGANARASIMHAN, S. R., JAGGA, C. R. (Minist. Def., Def. Res. and Dev. Org., Explosn. Res. and Dev. Lab., Pune, 411021 India): Thermal decomposition of zinc hydroxy azide. *Proc. Indian Acad. Sci.* 89 (1980) 361
- YOGANARASIMHAN, S. R., JAGGA, C. R. (Minist. Def. Def. Res. and Dev. Org., Explosn. Res. and Dev. Lab., Pune, 411021 India): Thermal decomposition of γ -irradiated zinc hydroxy azide. *Proc. Indian Acad. Sci.* 89 (1980) 369
- YVON, J. (Inst. Natl. Polytech. Lorraine, Ctr. Rech. Valorisat. Minerals Dependant, BP 452, F-54001 Nancy, France): Titration of chlorites using the intensity of exothermic peak near 870°C corrective term. *Bull. Mineral.* 103 (1980) 528
- ZADOKHIN, B. S., KAPLYANSKII, A. A., MARKOV, Y. F. (A. F. Joffe Engn. Phys. Inst., Leningrad, USSR): Second order Raman scattering and phase transition in Hg_2Cl_2 and Hg_2Br_2 crystals. *Fiz. Tverd. Tela* 22 (1980) 2659 (in Russian)
- ZAHRAN, A. H., STANNETT, V., LIEPINS, R., MOROSOFF, N. (N. Carolina State Univ., Dept. Chem. Engn., Raleigh, N. C., 27650 USA): Radiation grafting to polyesters, cotton and their blends to impart flame retardancy. *Rad. Phys. Chem.* 16 (1980) 265
- ZARETSKII, E. B., TYELETSKII, V. E. (Acad. Sci. USSR, Inst. High Temp., Moscow, V-71 USSR): Complex of thermophysical properties of solid solutions of the Ti—Al system in the temperature interval 750—1700°K. *High Temp. transl. Teplofiz. Vysok. Temp.* 18 (1980) 75
- ZARKHINA, T. S., KHALTURINSKII, N. A., KARMILOVA, L. V., BERLIN, AL. AL (Acad. Sci. USSR, Inst. Chem. Phys., Moscow, V-71 USSR): The effect of metals of variable valency on the thermal and thermooxidative degradation of epoxy resins. *Vysokomol. Soedin. B.* 22 (1980) 690 (in Russian)
- ZELDIN, M., JO, W. H., PEARCE, E. M. (Polytech. Inst. New York, Brooklyn, N. Y., 11201 USA): Kinetics of thermal degradation of poly [bis(2,2-trifluoroethoxy)-phosphazene]. *Macromolecules* 13 (1980) 1163
- ZEMAN, S. (Chemko, Dept. Res, CS 07222 Strazske, Czechoslovakia): The relationship between differential thermal analysis data and the detonation characteristics of polynitroaromatic compounds. *Thermochim. Acta* 41 (1980) 199
- ZHUKOV, É. G., DEMBOVSKII, S. A. (N. S. Kurnakov Gen. and Inorgan. Chem. Inst., Moscow, USSR): Enthalpy of atomization and bond energy in binary glass-forming chalcogenides. *Inorg. Mater. transl. Izv. Akad. Nauk SSSR Neorg. Mater.* 16 (1980) 26
- ZIVKOVIC, Z. D. (Univ. Beograd, Tech. Fac., Bor, Yugoslavia): Influence of mass and grain size on the basic geometry of the DTA curve. *6th Int. Conf. Thermal Anal., Bayreuth, Jul. 6—12, 1980, Birkhauser Verlag, Basel* (1980) 1, 99