

Bibliography Section

- ABDEL-BARY, E. M., SARHAN, A. A., ABDEL RAZIK, E. A. (Mansoura Univ. Fac. Sci. Dept. Chem. Mansoura, Egypt): Studies of the photo-oxidation of polydienes. Part 1 - Photo-stabilising effect of some derivatives of diacetyl-monooxime benzoyl-hydrazone nickel(II) chelates on cis-1,4-polybutadiene. *Polym. Degrad. Stabil.* 18 (1987)145
- ABELLO, L., CHHOR, K. POMMIER, C. (Univ. Paris 13 Chim. Phys. Lab. CSP, CNRS UA 453 Ave JB Clement F-93430, Villeurbanne, France): Low-temperature thermodynamic studies on LiRbSO_4 and LiCsSO_4 crystals. *J. Chem. Thermodyn.* 19(1982)797
- AGARI, Y., TANAKA, M., NAGAI, S., UNO, T. (Osaka Municipal Tech. Res. Inst. 6-50 1-Chome, Joto KU Osaka 536, Japan): Thermal conductivity of a polymer composite filled with mixtures of particles. *J. Appl. Polym. Sci.* 34(1987)1429
- AGARWAL, R. K., SINGH, G. (Lajpat Rai PG Coll. Dept. Chem. Sahibabad 201005, India): Spectral and thermal studies of 1,10-phenanthroline N,N-dioxide chelates of oxovanadium(IV). *Croat. Chem. Acta* 59(1986)945
- AKANNI, M. S., BURROWS, A. D. (Univ. IFE Dept. Chem. Ile IFE, Nigeria): Surface tension of some molten divalent metal carboxylates. *Thermochim. Acta* 115 (1987)351
- AKOPYAN, R. A., MAMEDOVA, S. K., AKOPYAN, E. G. (Moscow Electr. Engn. Inst. Moscow, USSR): Thermodynamic equilibria of point defects in germanium-based ternary solution in the germanium-aluminium-antimony system. *Zh. Fiz. Khim. SSSR* 61(1987)937
- ALBERDI, J. M., ALEGRIA, A., MACHO, E., COLMENERO, J. (CNR St. Composti Carbonio Continenti and Eteratomi and Loro Applicazione, Via Tolara Setto 89 1-400 Ozzano Emilia, Italy): Viscosity and relaxation times temperature behaviour above the glass transition in some glassy polymers. *Polym. Bull.* 18(1987)39
- ALBERS, C., WIENECKE, M. (Humbold Univ. Sch. Phys. Bereich Kristallog. Invaliden str. 110, DDR 1040 Berlin, Ger. Dem. Rep.): High-temperature insitu-hall-equipment for semiconductor compounds. *Cryst. Res. Tech.* 22(1987)K53
- ALIGULIEV, R. M., OGANYAN, V. A., YURKHANOV, V. Y., IBRAGIMOV, K. D. (All Union Low Molec. Olefin Prod. and Proc. Res. Technol. Inst. Baku, Azerbaijan, USSR): Influence of microtacticity on glass transition temperature of ethylene-propylene copolymers. *Vysokomol. Soedin. Ser. A* SSSR 29(1987)611
- ALLAN, J. R., PENDLOWKI, M. J., GERARD, D. L., BOWLEY, H. J. (Napier Coll. Dept. Appl. Chem. Sci. Edinburgh, Scotland): The thermal spectral and magnetic studies of chloro and homo compounds of cobalt(II), nickel(II) and copper(II) with melamine. *Thermochim. Acta* 115(1987)21
- ALLAN, J. R., BAUMONT, P. C., MACINDOE, L., MILBURN, G. H. W., WENINCK, A. (Napier Coll. Dept. Appl. Chem. Sci. Counton R. D. Edinburgh, Scotland): Thermal studies on acetylene-dicarboxylic acid compounds of iron(II), cobalt(II),

- nickel(II), copper(II) and zinc(II). *Thermochim. Acta* 117(1987)51
- AL-SAMMERRAI, F., AL-SAMMERRAI, D., AL-RAWI, J. (Petr. Res. Ctr. POB 10039 Jadiriya Bagdad, Iraq): The use of thermogravimetry and NMR spectrometry in the attempted identification of the source of Babylonian building asphalt. *Thermochim. Acta* 115(1987)181
- AL'ZOBA, T. G. (LY Karpov Physicochem. Res. Inst. Moscow, USSR): Preparation of cyclohexyldichlorophosphine by radiation-thermal reaction of phosphorus trichloride with cyclohexane. *High Energ. Chem.-Engl. Tr.* 21(1987)73
- AMIRA, M. F., EL-SHAZLY, S. A., KHALIL, M. M. (Univ. Alexandria Fac. Sci. Dept. Chem. Alexandria, Egypt): Thermodynamics of electrolytic dissociation. First and second dissociation constants of some dicarboxylic acids in 10% (V/V) acetone. *Thermochim. Acta* 115(1987)1
- ANDERS, A. G., VOLOTSKU, S. V. (Acad. Sci. UKSSR Inst. Low Temp. Engn. Phys. Kharkov 108, Ukraine, USSR): Low temperature spib dynamic of quasi-onedimensional system. *Fiz. Nizkikh. Temp.* 13(1987)530
- ANDERS, H. ZIMMERMANN, H. (Acad. Sci. GDR Inst. Polymer Chem. Erich Correns, Teltow, Ger. Dem. Rep.): A comparison of the thermal degradation behaviours of poly(vinyl acetate) poly(vinyl alcohol) and poly(vinyl chloride). *Polym. Degrad. Stabil.* 18(1987)111
- ARSHAKOV, Yu. I., ERSHOVA, O. B., GREBESKOVA, D., SHCHAYUK, E. P. (All Unino Petrochem. Ind. Inst. Moscow, USSR): Thermodynamic and kinetic aspects of decarburization of 0.9 Mn₂Si structural steel. *J. Appl. Chem. Engl. Tr.* 60(1987)169
- BAC, N., HAMMARSTROM, J. L., SACCO, A. J. (Middle E Tech. Univ. Ankara, Turkey): Thermal decompositions studies on copper-chromium-silver impregnated actived charcoal. *Carbon* 25(1987)545
- BADRAK, S. A., PEKKER, L. S. (Acad. Sci. UKSSR Inst. Mat. Sci. Problems Kiev, Ukraine, USSR): Thermodynamic calculation of 2-phase equilibrium of 2 substitution compounds in 3 component systems. *Zh. Fiz. Khim. SSSR* 61(1987)179
- BARGALLO, L., BORRUL, F., GUASH, J., CERDA, V. (Univ. Barcelona Fac. Quim. Tarragona Dept. Quim. E-43005 Tarragona, Spain): Cu(II) trace determination by means of a catalytic thermometric method based on the hydroxylamine-hydrogen peroxide reaction. *Thermochim. Acta* 117(1987)283
- BAUMSTARK, A. L., RELTER, C. A., TEHRANI, K., KELLOG, C. (Georgia State Univ. Dept. Chem. MBS Lab. Atlanta, GA 30303, USA): Thermolysis of 1,2-dioxetanes activation parameters and chemiexcitation yields for unsymmetric Cis/trans isomers. *J. Org. Chem.* 52(1987)3308
- BELOV, A. N., SEMENOV, G. A., TETERIN, G. A., SHKOLNIKOVA, T. M. (Acad. Sci. UKSSR Odessa Phys. Chem. Inst. Odessa, Ukraine, USSR): Evaporation processes and thermodynamic properties of Sc₂O₃ and binary solid solutions of ZrO₂-Sc₂O₃ according to hightemperature mass-spectrometry data 1. Experiment. *Zh. Fiz. Khim. SSSR* 61(1987)893
- BELOV, A. N., SEMENOV, G. A., TETERIN, G. A., SHKOLNIKOVA, T. M. (Acad. Sci. UKSSR Odessa Phys. Chem. Inst. Odessa, Ukraine, USSR): Evaporation processes and thermodynamic properties of Sc₂O₃ and binary solid solutions of ZrO₂-Sc₂O₃ according to high-temperature mass-spectrometry data 2. Calculations. *Zh. Fiz. Khim. SSSR* 61(1987)899
- BERGER, L. L., BUCKLEY, D. J., KRAMER, E. J., BROWN, H. R., BUBECK, R. A. (Dupont Co. Cent. Res. Exptl. STN Wilmington D1 19898, USA): Low-angle electron diffraction from high temperature polystyrene crazes. *J. Polym. Sci. B-Polym. Phys.* 25(1987)1679
- BERTELLI, G., BUSI, P., COSTA, L., CAMINO, G., LOCATELLI, R. (Cnr. Richerche Giulio Natta, P Ledonegani 1-44100 Ferrara, Italy): Fire retardant systems based on melamine hydrobromide. Part 2. Overall thermal degradation. *Polym. Degrad. Stabil.* 18(1987)307

- BHAGAWAN, S. S., TRIPATHY, D. K., DE, S.K. (Indian Inst. Technol. Ctr. Rubber Technol. Kharagpur 721302 W Bengal, India): Effect of fillers on thermoplastic 1,2-polybutadiene rubber; mechanical and viscoelastic properties. *J. Appl. Polym. Sci.* 34(1987)1581
- BIRKINSHAW, C., BUGGY, M., DALY, S., WHITE, J. J. (Natl. Inst. Higher Educ. Limerick, Ireland): The melting behaviour of irradiated polymers. *Thermochim. Acta* 117(1987)365
- BODDINGTON, T., LAYE, P. G. (Univ. Leeds Dept. Phys. Chem. Leeds LS2, 9JT W Yorkshire, England): The measurement of thermal conductivity by differential scanning calorimetry. *Thermochim. Acta* 115 (1987)345
- BOINON, B., BENAYAD, B., MONTHEARD, J. P. (Univ. St. Etienne Fac. Sci. and Tech. Chim. Organ Macromolec Lab. 23 Rue Docteur Paul Michelon, F-42023 St. Etienne 2, France): Etude de la stabilité thermique du poly(styrene covinyl benzyl diethyl phosphate). *Thermochim. Acta* 117 (1987)177
- BOSI, L. (Politecn. Milan Ist. Fis. Piazza Leonardo Vinci 32, 1-20133 Milan, Italy): A simple theory for forecasting the melting temperature of alkali halides and of alkaline-earth oxides. *Phys. Status Solidi A-Appl. Res.* 101(1983)K111
- BOUSQUET, J. A., FOUASSIER, J. D. (Ecole Natl. Super Chim. Photochim. Gen. Lab. CNRS Unite 431, 3 Rue A Werner F-68200 Mulhouse, France): Photo-oxidation of elastomers. A fundamental approach based on the study of a series of photo-sensitive elastometric systems: A review. *Polym. Degrad. Stabil.* 18(1987)169
- BRUNNER, E. (BASF AG, D-6700 Ludwigshafen, Fed. Rep. Ger.): Fluid mixtures at high pressure. V. Phase separation and critical phenomena in 18 binary mixtures containing either pyridine or ethanoic acid. *J. Chem. Thermodyn.* 19(1987)823
- CEBULLA, H., ERBEN, E. (Tech. Univ. Karl Marx Stadt, Sekt. Phys. Elektr. Bauelemente PSF 964, DDR-9010 Marx Stadt, Ger. Dem. Rep.): Metal CUD, a thermodynamic model. *Cryst. Res. Tech.* 22(1987)301
- CEZAIRLIYAN, A., MCCLURE, J. L. (NBS Div. Thermophys. Gaithersburg MD 20899, USA): A microsecond-resolution transient technique for measuring the heat of fusion of metals: niobium. *Int. J. Thermophys.* 8(1987)577
- CHANNA, M. B., LALLEMAND, M., SIMONOT-GRANGE, M. H., BERTRAND, G. (Fac. Sci. Mirande Rech. Reactiv Solides Lab. CNRS Unite 23, BP 138 F-21004 Dijon, France): Sur quelques aspects thermodynamiques et cinétiques de la déshydration de le zeolithie 13x sous champ microonde. *Thermochim. Acta* 115 (1987)317
- CHARITIDON, E., DIX, M., ASSAEL, M. J., De CASTRO, C. A. N., WAKEHAM, W. A. (Aristotle Univ. Thessaloniki, Dept. Chem. Engn. GR-54006 Thessaloniki, Greece): A computer-controlled instrument for the measurement of the thermal conductivity of liquids. *Int. J. Thermophys.* 8(1987)511
- CHENG, G. C., ELWELL, D. (Stanford Univ. Ctr. Mat. Res. Standford CA, 94305 USA): Thermal diffusivity of cesium cadmium chloride. *J. Cryst. Growth* 83(1987)44
- CHIOW, J. S., PAUL D. R. (Univ. Texas Dept. Chem. Engn. Austin TX 78712, USA): Gas transport in a thermotropic liquid crystalline polyester. *J. Polym. Sci. B-Polym. Phys.* 25(1987)1699
- CLAUSEN, E., LAHANIATIS, E. S., BAHDIR, M., BIENIEK, D. (Gesell Strahlen und Umweltforsch MBH Inst. Okol. Chem. Ingolstädter Landstr. 1. D-8042 Fed. Rep. Ger.): Determination of brominated dibenzofurans formed by thermolysis of polymers containing decabromodiphenylether as flame retardant. *Fresenius Z. Anal. Chem.* 327(1987)297
- COBOS, J. C., CASANOVA, C., ROUX-DES-GRANGES, G., GROLIER, J. P. E. (Univ. Valladolid Fac. Ciencias Dept. Termol. E-47011, Valladolid, Spain): Excess prop-

- erties of mixture of some n-alkoxyethanols with organic solvents. II. V_m^E and C_p^E m with di-n-butylether at 298.15K. *J. Chem. Thermodyn.* 19(1917)791
- COLINET, C., PASTUREL, A., PERCHERON-QUEGAN, A., ACHARD, J. C. (Ecole Natl. Super Electrochim. and Electromet. Grenoble, CNRS, Unite 29, F-38402 St. Martin Dheres, France): Enthalpies of formation and hydrogenation of $\text{La}(\text{Ni}_{(1-x)}\text{Co}_x)_3$ compounds. *J. Less. Common Metals* 134(1987)109
- CORTE, P., HERAULT, V., CASTILLO, S., TRAVERSE, J. P. (Afme, 27 Rue Vicat, F-75015 Paris, France): High-temperature gasification of carbonaceous materials by flash pyrolysis thermal aspects. *Fuel* 66 (1987)1107
- COSGROVE, T., HEATH, T., Van LENT, B., LEERMAKERS, F., SCHAUTJENS, J. (Univ. Bristol Sch. Chem. Bristol BS8 1TS Avon, England): Configuration of thermally attached chains at the solid/solvent interface: selfconsistent field theory and a Monte Carlo model. *Macromolecules* 20 (1987)1692
- COUCHMAN, P. R. (Rutgers State Univ. Dept. Mech. and Mat. Sci. Piscataway, N. J., 08854, USA): Thermodynamics and the compositional variation of glass transition temperatures. *Macromolecules* 20 (1987)1712
- CRACIUN, C. (Inst. Cerxebari Pentu Pedal. Agrochim, B. Dul Marasti 61, R-71331 Bucharest 32, Romania): The study of some normal and abnormal montmorillonites by thermal analysis and infrared spectroscopy. *Thermochim. Acta* 117(1987)25
- CRISPIN, A. J., GREIG, D. (Leeds Polytech. Dept. Informat. and Engn. Syst. Leeds LS1 3HE 1, England): The low-temperature specific heat of the liquid crystal copolyester prepared from 4-hydroxybenzoic acid and 2-hydroxy-6-naphthoic acid. *Polym. Commun.* 28(1987)246
- DASH, U. N., MISHRA, M. K. (Utkal Univ. Post Grad. Dept. Chem. Bhubaneswar 751004, India): Thermodynamics of dissociation of dicarboxylic acids in water + dioxane mixtures. *Thermochim. Acta* 115 (1987)97
- DASH, U. N., SAMANTA, P. R. (Utkal Univ. Post Grad. Dept. Chem. Bhubaneswar 751004, India): Standard thermodynamics of transfer IV. The silver and silver salt electrodes in acetic acid + water mixtures at 25 °C. *Thermochim. Acta* 115(1987)111
- DaSILVA, R., REIS, M. A. V., PILCHER, A. M. V. (Univ. Coimbra Dept. Quim. P-3049 Coimbra, Portugal): Enthalpies of formation of crystalline dialkylammonium dialkyldithiocarbamates alkyl = ethyl, n-propyl, i-propyl, n-butyl, and i-butyl. *J. Chem. Thermodyn.* 19(1987)837
- DEINSKI, H., WALCZAK, J. (Tech. Univ. Szczecin Inst. Fundamental Chem. AL Pastrow 42, PL-71065 Szczecin, Poland): Study of the decomposition kinetics of Cu_2SO_4 under non-isothermal conditions. *Thermochim. Acta* 117(1987)1
- DECKERT, A. A., BRAND, J. L., MAK, C. H., KOEHLER, B. G., GEORGE, S. M. (Stanford Univ. Dept. Chem. Stanford CA 94305, USA): The decomposition of methanol on Ru(001) studied using laser induced thermal desorption. *J. Chem. Phys.* 87(1987)1936
- DEMSAR, A., BUKOVEC, P. (Edvard Kardely Univ. Dept. Chem. and Chem. Technol. YU-61000 Ljubljana, Yugoslavia): Thermal decomposition of tetramethylammonium di- μ -fluoro bis aquadifluoro-oxovanadate(IV). *Thermochim. Acta* 115(1987)249
- DERGACHEVA, M. B., KHOBDABER-GENOVA, G. R., KOZIN, L. F. (Acad. Sci. KASSR Inst. Organ. Catalysis and Electr. Chem. Alma Ata 480021, Kazakhstan, USSR): Thermodynamics of liquid amalgams of alkali metals with thallium. *Zh. Fiz. Khim. SSSR* 61(1987)1480
- DeROBERTIS, A., SAMMARTANO, S., RIGANO, C., ZERBINATI, O. (Univ. Messina Inst. Chim. Analit. V. Verdi 1-98100 Messina, Italy): Ion association of Cl^- with Na^+ , K^+ , Mg^{2+} and Ca^{2+} in aqueous solution

- at $10 \leq T \leq 45$ °C and $0 \leq 1 \leq 1$ mol t^{-1} . A literature data analysis. *Thermochim. Acta* 115(1987)241
- DeROBERTIS, A., DeSTEFANO, C. (Univ. Messina Inst. Chem. Analit. Via Verdi 1-98100 Messina, Italy): Formation and stability of magnesium oxydiacetate complexes at different temperatures and ionic strengths in aqueous solution. *Thermochim. Acta* 117(1987)317
- DESAI, P. D. (Purdue Univ. Ctr. Informat. and Numer Data Anal. and Synth. 2595 Yeager RD, W Lafayette, IN 47906 USA): Thermodynamic properties of aluminium. *Int. J. Thermophys.* 8(1987)621
- DEVYATYKH, G. G., GUSEV, A. V., GIBIN, A. M., POLOZKOV, S. A. (Acad. Sci. USSR Inst. Chem. Gorki, USSR): Heat capacity of highly pure phosphorus trichloride in the 20-273K range. *Zh. Fiz. Khim. SSSR* 61(1987)1476
- DEWAN, R. K., MEHTA, S. K. (Panjab Univ. Dept. Chem. Chandigarh 160014, India): Excess volumes of (Ethylbenzene + an alkanol). *J. Chem. Thermodyn.* 19(1987)819
- DOLLIMORE, D. (Univ. Toledo Dept. Chem. Toledo OM, 43606 USA): The thermal decomposition of oxalates. A review. *Thermochim. Acta* 117(1987)331
- DRAGAN, G. (Inst. Cercetare Chim. Cent. Chim. Fiz. R-77208 Bucharest, Romania): Comparative study on molecular association in solid and liquid phases of aqueous solutions. 1. Presentation of high resolution mixing calorimetry, differential scanning calorimetry, dynamic thermal densimetry and thermomechanical analysis. *Acta Polym.* 38(1987)211
- DZHAFAROV, O. I., KULIEV, A. M. (Acad. Sci. AZSSR Inst. Chem. Technol. Theoret. Problems, Baku Azerbaidzhan, USSR): Heat capacity, phase transition and thermodynamic properties of 1,1,3,3-tetraethyl-5,5-dimethylcyclotrisiloxane in the 5-300K range. *Zh. Fiz. Khim. SSSR* 61(1987)1504
- DZHAVADOV, L. N. (IF Vereshchagin High Pressure Phys. Inst. Moscow, USSR): Definition of thermodynamic functions from (DT/DP)S measures under pressure. *Zh. Fiz. Khim. SSSR* 61(1987)1106
- EASTEAL, A. J., WOOLF, L. A. (Australian Natl. Univ. Res. Sch. Phys. Sci. Atom and Molec. Phys. Labs. Canberra Act. 2601, Australia): p,V,T and derived thermodynamic data for bromobenzene at temperatures from 278 to 323 K and pressures up to 280 MPa. *Int. J. Thermophys.* 8(1987)557
- ECKERT, D., HINZ, D., HANDSTEIN, A., SCHNEIDER, J. (Acad. Sci. GDR Zent. Inst. Festkorperphys. and Werkstoffforsch. DDR-8027 Dresden, Ger. Dem. Rep.): Thermal ageing and coercivity of sintered Nd-Fe-B magnets. *Phys. Status Solidi A-App. Res.* 101(1987)563
- EGUIAZABAL, J. I., ELORZA, J. M., IRUIN, J. J., GUZMAN, G. M. (Univ. Paris Vasco, Fac. Ciencias Quim. Dept. Quim. Fis. and Macromolec. Apartado 1072, E-20080 San Sebastian, Spain): Theoretical simulations of the thermodynamic behaviour of miscible polymer blends. *An. Quim. A-Fis. Tec.* 83(1987)159
- FARAGLIA, G., SINDELLARI, L., SITRAN, S. (Univ. Padua Dipartimento Chim. Inorgan Met. and Analyt. Via Loredan 4, I-35100 Padua, Italy): Spectroscopic and thermal studies on platinum(II) iodide complexes with primary amines. *Thermochim. Acta* 115(1987)229
- FARONG, H., XUEQUIN, W., SHIJIN, L.: The thermal stability of polyetherimide. *Polym. Degrad. Stabil.* 18(1987)247
- FITZER, E., WEISS, R. (Univ. Karlsruhe Inst. Chem. Tech. D-7500 Karlsruhe, Fed. Rep. Ger.): Effect of surface treatment and sizing of C-fibres on the mechanical properties of CFR thermosetting and thermoplastic polymers. *Carbon* 25(1987)455
- FRANGULYAN, G. D., GOEVA, L. V., TORSUNOVA, N. I., TSAPKIN, V. V., KUZNETSOV, N. T. (NS Kurakakov Gen. and Inorgan Chem. Inst. Moscow, USSR): Thermolysis of uranyl hydroxyethylidene-

- phosphonates. *Zh. Neorg. Khim. SSSR* 32(1987)1169
- FRANGULYAN, G. D., GOEVA, L. V., TORSUNOVA, N. I., TSAPKIN, V. V., KUZNETSOV, N. T. (NS Kurnakov Gen. and Inorgan Chem. Inst. Moscow, USSR): Thermolysis of uranyl nitriletrimethylphosphonates. *Zh. Neorg. Khim. SSSR* 32 (1987)1164
- FREITAS, L., BURGERT, J., STADLER, R. (Inst. Makromolek. Chem. Hermann Staudinger Haus Stefan Meier Str. 31 D-7800 Freiburg, Fed. Rep. Ger.): Thermoplastic elastomers by hydrogen bonding 5. Thermorheologically complex behaviour by hydrogen bond clustering. *Polym. Bull.* 17(1987)431
- FRENKEL, I. R., DUCHACEK, V., KIRILOVA, T., KUZMIN, E. (All Union Res. Designing and Technol. Inst. Rubber Ind. Volzhski 404103 USSR): Thermodynamic and structural properties of acetonitrile-butadiene rubber polyethylene blends. *J. Appl. Polym. Sci.* 34(1987)1301
- GANTAR, D., RAHTEN, A., VOLAVSEK, B. (Edward Kardelj Univ. Inst. Jozef Stefan YU-61000 Ljubljana, Yugoslavia): Thermal decomposition study of hydrazinium(2+), heptafluorotantalate monohydrate and identification of intermediate compounds. *Thermochim. Acta* 117(1987)227
- GARCIA, B., ORTEGA, J. C. (Univ. Valladolid Dept. Quim Fis. Colegio Univ. Integrado, Burgos, Spain): Binary liquid mixtures of acetonitrile with methyl, ethyl, n-propyl and n-butyl benzoates. Variation of viscosities with temperature and composition. *Thermochim. Acta* 117(1987)219
- GAUMET, S., GARDETTE, J. L., LEMAIRE, J. (Univ. Clermont Ferrand Z. Photo Chim. Molec. and Macromolec. Lab. CNRS Unite 433 BP 45 F-63170 Aubiere, France): Photo-chemistry of copolymers of vinylidene chloride and vinylchloride: Part I. — Wavelength effects on discoloration. *Polym. Degrad. Stabil.* 18(1987)135
- GAVRICHEV, K. S., TOLMACH, P. I., GORBUNOV, V. E., GORYUSHKIN, V. F. (NS Kurnakov Gen. and Inorgan Chem. Inst. Moscow, USSR): Low temperature SnCl_2 heat capacity. *Zh. Fiz. Khim. SSSR* 61(1987)1129
- GAVRICHEV, K. S., TOLMACH, P. I., GORBUNOV, V. E., GORYUSHKIN, V. F. (NS Kurnakov Gen. and Inorg. Chem. Inst. Moscow, USSR): Low temperature NdCl_2 heat capacity. *Zh. Fiz. Khim. SSSR* 61 (1987)1132
- GENIS, A. V., SVISTUNOV, V. A., ISPIRYAN, R. A. (All Union Synthet. Fiber Res. Inst. Moscow, USSR): Estimation of the thermal insulation characteristics of fibrous materials made from synthetic threads of shaped cross section. *J. Appl. Chem. Engl. Tr.* 60(1987)234
- GHOSH, J. K., JEVE, G. V. (Indian Inst. Technol. Dept. Chem. New Delhi 110016, India): Solid state decomposition study on tetraperoxo species of transition metals. Part II. Kinetics of isothermal decomposition of $\text{K}_4[\text{Ti}(\text{O}_2)_4] \cdot 2\text{H}_2\text{O}$. *Thermochim. Acta* 117(1987)73
- GLAZ, A. I., SOLDATOVA, T. A., GOLOPOLOSOVA, T. V., GITIS, S. S. (LN Tolstoi State Teachers Inst. Tula, USSR): Thermal study of 2,4,6-trinitroanizole of alkali earth metals. *Zh. Obsch. Khim. SSSR* 57(1987)616
- GRACHEV, N. A. (Penza Polytech. Inst. Penza, USSR): Thermodynamics of mechanism of electrochemical reactions in a nonequilibrium temperature field. *Zh. Fiz. Khim. SSSR* 61(1987)1492
- GRASSIE, N., DIAB, M. A. M., SCOTNEY, A. (Univ. Glasgow Dept. Chem. Glasgow G12 8QQ, Scotland): Thermal degradation of bromine-containing polymers. Part 11 Blends of poly(2,3-dibromopropyl methacrylate) and poly(2,3-dibromopropyl acrylate) with poly (methyl methacrylate) and poly(methyl acrylate). *Polym. Degrad. Stabil.* 18(1987)157
- GREBENEV, V. N., MAZUR, E. A. (Moscow Engn. Phys. Inst. Moscow, USSR): Superconducting transition temperature of the

- nonideal A-15 crystals. *Fiz. Nizkikh. Temp.* 13(1987)478
- GRECHAUNY, O. A., MAMULA, A. I. (Acad. Sci. UKSSR Inst. Tech. Thermal Phys. Kiev Ukraine, USSR): Thermodynamic theory of liquid phase crystallization of multicomponent solid solutions of chemical compounds. *Zh. Fiz. Khim. SSSR* 61(1987)903
- GROSSERT, J. S., HOYLE, J., CAMERON, J. S., ROE, S. P., VINCENT, B. R. (Dalhouse Univ. Dept. Chem. Halifax NS, Canada B3H 4J3): The structures of some sulphur-stabilized carbanions and stereoelectronic requirements for the formation of α -sulphonyl carbanions. *Can. J. Chem.* 65(1987)1407
- GUBRYNOWICZ, L., STROMICH, T. (Silesia Tech. Univ. PL-44100 Gliwice, Poland): Study on the thermal decomposition of chromium(III) nitrate nonahydrate (CNN). *Thermochim. Acta* 115(1987)137
- GUSEV, A. I., KEMPEL, A. A., LIPATNIKOV, V. N. (Acad. Sci. USSR Ural Sci. Ctr. Inst. Chem. Sverdlovsk, USSR): Thermodynamic model of atomic ordering 3. Calculation of cluster energy. *Zh. Fiz. Khim. SSSR* 61(1987)916
- GUSKOV, V. N., GRINBERG, Y. K., LAZAREV, V. B. (NS Kurnakov Gen. and Inorgan Chem. Inst. Moscow, USSR): Thermodynamic properties of ZnAs₂. *Zh. Fiz. Khim. SSSR* 61(1987)1931
- GUMMOW, R. J., SIGALAS, I. (Csir Natl. Inst. Mat. Res. POB 395, Pretoria 0001, South Africa): Temperature and pressure effects on the thermal conductivity of TiCl and TiBr. *Int. J. Thermophys.* 8(1987)607
- HANSEN, L. D., EATOUGH, D. J. (Brigham Young Univ. Dept. Chem. Provo UT 84062, USA): Determination of residual unsaturation in polyene preparations by direct injection enthalpimetry. *Thermochim. Acta* 117(1987)37
- HASSANEIN, M. (Natl. Res. Ctr. Dept. Inorgan Chem. Cairo, Egypt): Solid-state reactions of talk toward Ni(II) at high temperatures. *Thermochim. Acta* 117(1987)17
- HATAKEYAMA, T., YAMAUCHI, A., HATAKEYAMA, H. (Res. Inst. Polymers and Text 1-1-4 Yatabe Higashi Tsukuba, Ibaraki 305, Japan): Effect of thermal hysteresis on structural change of water restrained in poly(vinyl alcohol) pseudo gel. *Eur. Polym. J.* 23(1987)361
- HATTORI, T., YOSHIDA, H. (Hokkaido Univ. Fac. Sci. Dept. Chem. Sapporo, Hokkaido 060, Japan): Thermometric titration of cadmium with sodium diethyldithiocarbamate, with oxidation by hydrogen peroxide as indicator reaction. *Talanta* 34(1987)733
- HEIDER, F., BRYNDZIA, L. T. (Univ. Toronto Dept. Phys. Geophys. Lab. Toronto, Ontario, Canada M5S 1A7): Hydrothermal growth of magnetite crystals(1-Mum to 1 mm). *J. Cryst. Growth* 84(1987)50
- HOLLAND, K. A., RAE, I. D. (Monash Univ. Dept. Chem. Clayton Vic. 3168 Australia): Thermal degradation of polymers.III. Thermal degradation of a compound which models the head- to-head linkage in poly(methyl methacrylate). *Aust. J. Chem.* 40(1987)687
- HOLMES, H. F., BUSEY, R. H., SIMONSON, J. M., MASMER, R. E., ARCHER, D. G., WOOD, R. H. (Oak Ridge Natl. Lab. Div. Chem. Oak Ridge TN 37830, USA): The enthalpy of dilution of HCl(Aq) to 648K and 40MPa. Thermodynamic properties. *J. Chem. Thermodyn.* 19(1987)3
- HOPF, H., WACHHOLZ, G. (Tech. Univ. Brunswick Inst. Organ Chem. Hagenring 30, D-3300 Brunswick, Fed. Rep. Ger.): Thermal rearrangements XVIII. Gas phase pyrolysis of cyclopropylacetylene. *Chem. Ber.* 120(1987)1259
- HORI, H., TANAKA, I., AKIYAM, T. (Univ. Occupat. and Environm. HLTH Inst. Ind. Ecol. Sci. Dept. Environm. HLTH Engn. Yahata Nishi KU Kitakyushu, Fukuoka 807, Japan): Estimation of thermal desorption curve and desorption efficiency of organic solvent from activated carbon. *Nippon Kagaku Kaishi* 5(1987)922
- HOUSE, J. E. Jr., TAHIR, F. M. (Illinois State Univ. Dept. Chem. Normal, IL 61761 USA):

- Catalyzed deamination of tris(ethylenediamine) chromium(III) phosphate. *Thermochim. Acta* 117(1987)371
- HOUSE, J. E. Jr., TAHIR, F. M. (Illinois State Univ. Dept. Chem. Normal, IL 61761 USA): Some observations on the decomposition of tris(ethylenediamine)cadmium (II)chloride. *Thermochim. Acta* 117(1987)375
- HUANG, J. M., DAUGHERTY, K. E. (N Texas State Univ. Dept. Chem. Denton TX 76203, USA): Catalytic effect of alkali carbonates on the calcination of calcium carbonate. *Thermochim. Acta* 115(1987)57
- HUTCHINGS, M. T. (Aere Div. Mat. Phys. and Met. Hanwell OX11 ORA, Oxon, England): High-temperature studies of UO_2 and ThO_2 using neutron scattering techniques. *J. Chem. Soc. Faraday Trans. II* 83 (1987)1083
- INOUE, M., KURUSU, A., WAKAMATSU, H., INUI, T. (Univ. Tokyo Inst. Ind. Sci. Minato KU, Tokyo 106, Japan): Thermal decomposition of $\text{IrCl}_4 - (\text{NH}_4)_6\text{Mo}_7\text{O}_{24} - \text{NaNO}_3$ salt mixture supported in alumina. *Appl. Catal.* 32(1987)203
- ISLAM, M. R., QUADRI, S. K. (Unjy. Kashmru Post Grad. Dept. Chem. Srinagar 190006 Jammu and Kashmir, India): Ultrasonic velocity and viscosity of binary liquid mixtures. *Thermochim. Acta* 115(1987)335
- ITO, K., KANNO, T. (Tohoku Univ. Res. Inst. Min. Dressing and Met. Sendai Miyagi 980, Japan): Thermal studies of uranium(V) chloride-trichloracyl chloride and uranium(VI) chloride-hexachloropropene. *Thermochim. Acta* 115(1987)65
- JAIN, R. K., LAL, K., BHATNAGAR, H. L. (Kurukshetra 132119, Haryana, India): Thermal and spectroscopic studies on C-2, C-3, and C-6 substituted cellulose with different groups. *Thermochim. Acta* 117 (1987)187
- JASIM, F., JAMEL, I. (Univ. Baghdad Coll. Sci. Dept. Chem. Baghdad, Iraq): Derivatographic investigations of the systems $\text{BaO}-\text{GeO}_2$ and $\text{BaO}-\text{Nb}_2\text{O}_5$. *Thermochim. Acta* 115(1987)37
- JELICH, L. M., NUNES, S. P., PAUL, E., WOLF, B. A. (Univ. Mainz, Inst. Phys. Chem. D-6500 Mainz, Fed. Rep. Ger.): On the concurrence of demixing and thermoreversible gelation of polymer solution I. Experimental observations. *Macromolecules* 20(1987)1943
- JEREZ, A., RAMOS, E., GAITAN, M., VARGA, M. L. (Univ. Complutense Madrid Fac. Ciencias Quim. Dept. Quim. Inorganica E-28040 Madrid, Spain): A method for the kinetic analysis of nonisothermal decomposition reactions of solids. *Thermochim. Acta* 115(1987)175
- JIMÉNEZ, A., JIMÉNEZ, H., BORRÁS, J. (Univ. Valencia Fac. Farm. Dept. Quim. Inorganica, Valencia, Spain): Cu(II) phenobarbiturates and N-methyl phenobarbiturates. Thermal decomposition processes. *Thermochim. Acta* 117(1987)135
- KABANOV, V. M., PRIVALOVA, N. M., VOROBEV, A. F. (DI Mendelev Chem. Technol. Inst. Dept. Gen. and Inorgan. Chem. Moscow, USSR): Thermochemistry of potassium iodide solutions in acetonitrile-dimethyl-formamide-water mixtures: *Izv. Vyssh. Uch. Zav. Khim. Khim. T.* 29(1986)37
- KHARYGANOVA, T. N., FEDOROV, V. M., RAKITYANSKAYA, M. F. (Voronezh Polyt. Inst. Voronezh, USSR): Temperature dependence of entropy of activation of dehydrates zeolyte-NaCaA electroconductivity. *Zh. Fiz. Khim. SSSR* 61(1987)1967
- KHIZHNYL, V. A., DANIOVA, T. A., GOLOVERDA, G. Z., DOBRONRAPOVA, Z. A. (LV Pisarzherskii Phys. Chem. Inst. Kiev, Ukraine, USSR): Kinetics and mechanism of the thermolysis of 0,0'-bis (1,3,5-testbutyl 2,5 cyclohexadien-4-on 1-4) parabenzoquinonedioxime in solutions. *Zh. Org. Khim. SSSR* 23(1987)858
- KIHARA, K., MATSUMOTO, T., IMAMURA, M. (Kanazawa, Ishikawa 920, Japan): Structural charge of orthorhombic-trydinitite with temperature: A study based on second-order thermal vibrational parameters. *Z. Kristallogr.* 177(1986)27

- KIHARA, K., MATSUMOTO, T., IMAMURA, M. (Kanazawa Univ. Fac. Sci. Dept. Earth Sci. 1-1 Marunouchi Kanazawa, Ishikawa 920, Japan): High-order thermal-motion-tensor analyses of tridymite. *Z. Kristallogr.* 17(1986)39
- KIM, W. N., BURNS, C. H. (Univ. Waterloo Dept. Chem. Engn. Waterloo, Ontario Canada, N2L 3GI): Thermal behavior, morphology and the determination of the Flory-Huggins interaction parameter of polycarbonate-polystyrene blends. *J. Appl. Polym. Sci.* 34(1987)945
- KLIMENKO, I. B., PLATONOVA, N. V., GRACNEV, V. I., VINOGRADOV, B. A., ARBUZOV, U. R. (SM Kirov. Text. and Light Ind. Inst. Leningrad, USSR): Influence of preliminary laser irradiation on thermooxidative degradation of polyacrylonitrile. *Vysokomol. Soedin. Ser. A. SSSR* 29(1987)982
- KOGAN, B. S., KISIL, Y. K., SHAROVA, N. G., DOLININA, I. V. (Acad. Sci. USSR Ural Sci. Ctr. Inst. Chem. Sverdlovsk, USSR): Thermodynamic characteristics of calcium chromate in 55-305K temperature range. *Zh. Fiz. Khim. SSSR* 61(1987)1969
- KOKKONEN, P., PALMU, L., LAJUNEN, L. H. J. (Univ. Oulu Dept. Chem. SF-90570 Oulu 57, Finland): Solid state decomposition studies on metal salicylates. Kinetics of isothermal dehydration of some 5-substituted metal salicylato complexes. *Thermochim. Acta* 15(1987)255
- KOKKONEN, P., LAJUNEN, L. H. J., PALMU, L. (Univ. Oulu Dept. Chem. SF-90570 Oulu 57, Finland): Solid state decomposition studies on metal salicylates. Thermal decomposition of the 5-substituted dysprosium and erbium salicylato complexes. *Thermochim. Acta* 117(1987)79
- KOLESNIKOVA, E. A., SEVASTYANOVA, T. N., SUVOROV, A. V. (A.A Zhdanov State Univ. Leningrad B-164, USSR): Thermodynamic study of tin tetrachloride complexes with bidentate oxygen-containing ligands. *Zh. Neorg. Khim. SSSR* 32(1987)1571
- KOSTROMIN, S. G., SHIBAEV, V. P., PLATE, N. A. (Moscow State Univ. Dept. Chem. Moscow 119899, USSR): Thermotropic liquid-crystalline polymers XXVI. Synthesis of comb-like polymers with oxygen containing spacers and a study of their phase transition. *Liq. Cryst.* 2(1987)195
- KOTYASEV, K. P., LIN, G. I., ROZOVSII, A. Y., KHODAKOV, Y. S., MINACHEV, K. M. (ND Zelinskii Organ. Chem. Inst. Moscow, USSR): Thermal desorption studies of the properties of surface compounds on a copper-containing industrial methanol synthesis catalyst. *Bull. Acad. Sci. USSR D Chem. Sci.* 35(1986)2430
- KRIVÁNEK, M., DUNG, N. T., JIRU, P. (Czechoslovak Acad. Sci. J. Heyrovsky Inst. Phys. Chem. and Electrochem. CS-12138 Prague 2, Czechoslovakia): Activity of dealuminated 4-type zeolites determined by adsorption microcalorimetry. *Thermochim. Acta* 115(1987)91
- KUBOTA, S., MORIWAKI, T., ANDO, T., FUKAMI, A. (Mitsubishi Elect. Corp. Dept. Polymer Engn. Mat. and Electr. Devices 8-1-1 Tsukaguchi Honmachi, Amagasaki Hyogo 661, Japan): Preparation and thermal properties of polyquinazolones containing m-substituted phenyl groups on the quazolone ring. *J. Polym. Sci. A-Polym. Chem.* 25(1987)2241
- KUKUSHKIN, Y. N., DEMIDOV, V. N., VEDENEVA, L. N., BELYAEV, A. N. (Lensovet Technol. Inst. Leningrad, USSR): Thermolysis of tetraphenylphosphonium tetrachlorodihydroxiplatine(IV). *Zh. Neorg. Khim. SSSR* 32(1987)1149
- KURBANOV, M. A. (Acad. Sci. AZSSR Radiat. Res. Sector, Baku Azerbaidzhan, USSR): Thermoradiational decomposition of CO₂ in the presence of α-Al₂O₃. *High Energy. Chem. Engl. Tr.* 21(1987)72
- KURBATOV, V. A.: Thermal polymerization and digomerization of monomers. *Usp. Khim. SSSR* 56(1987)865
- KURYLO, M. J., WALLINGTON, T. J. (NBS Ctr. Chem. Phys. Gaithersburg MD 20899, USA): The temperature dependence of the rate constant for the gas phase disproportionation reaction of CH₃O₂ radicals. *Chem. Phys. Lett.* 138(1987)543

- KUWABARA, M., FUKUNISHI, K., NOMURA, M., YAMANA, H. (Kyoto Inst. Technol. Fac. Engn. and Design Dept. Color Chem. and Technol. Sakyo KU Kyoto 606, Japan): Thermal ring opening reactions of 1-(poly-fluoroalkyl)-4-aza-1-azoniabicyclo [2.2.2] octane salts. *Nippon Kagaku Kaishi* 5 (1987)846
- KUZMIN, D. P., KRESTOV, (Ivanovo Chem. Technol. Inst. Dept. Inorgan Chem. Ivanovo, USSR): Thermodynamics of argon solution in tetraethylammonium iodide solutions in 1,2-ethanediol at 263-343K. *Izv. Vyssh. Uch. Zav. Khim. Khim. T* 29(1986)112
- La MANTIA, F. P., NOCILLA, M. A. (Univ. Palermo Ist. Ingn. Chim. Viale Sci. 1-90128 Palermo, Italy): Thermomechanical degradation of polyisobutylene/polystyrene blends. *Polym. Degrad. Stabil.* 17(1987)279
- LEBED, V. I., BONDAREV, N. V., PAULENOVA, A. (AM Gorkii State Univ. Kharkov Ukraine, USSR): Dissociation constants and thermodynamic characteristics of dissociation and solvation of acetic acid in water-propanol-2 mixtures. *Zh. Fiz. Khim. SSSR* 61(1987)1487
- LÉDÉ, J., LI, H. Z., VILLERMAUX, J., MARTIN, H. (Ecole Natl. Super Ind. Chim. CNRS Sci. Genie Chim. Lab. 1 Rue Grandville, F-54042, Nancy, France): Fusion-like behaviour of wood pyrolysis. *J. Anal. Appl. Pyrol.* 10(1987)291
- LIBUS, W., STAGRET, J., INEROWICZ, H. (Gdansk Tech. Univ. Inst. Inorgan Chem. and Technol. Dept. Phys. Chem. PL-80952 Gdansk, Poland): The enthalpies of solution of tetraphenylsilane in pyridine-other solvent mixtures. *Thermochim. Acta* 117 (1987)237
- LIU, Y. N., TAN, F. (Chinese Acad. Sci. Inst. Chem. Beijing, Peoples R China): Study of thermal denaturation of hydrates aldolase by differential scanning. *Acta Chim. Sin.* 45(1987)541
- LOBZA, G. V., AFONINA, G. G., LATYSHEVA, L. E., CHENETS, V. V. (AA Zhdanov State Univ. Inst. USSR): Thermal stability and composition of high silicon zeolites. *Zh. Fiz. Khim. SSSR* 61(1987)922
- LOPUSHANSKAYA, A. I., TEVTUL, Y. Y., MARKOVSKII, B. I. (Chernovtsky State Univ. Dept. Phys. Chem. Chernovtsky, Ukraine, USSR): Thermoelectric properties of electrochemical systems with zinc electrodes. *Izv. Vyssh. Uch. Zav.. Khim. Khim. T.* 30(1987)69
- LU, X., BROWN, N.: Effect of thermal history on the initiation of slow crack growth in linear polyethylene. *Polymer* 28(1987)1505
- LUCAS, A., ARNALDOS, J., CASAL, J., PUIGJANER, L. (Univ. Politecn. Catalunya, Etsib Diagonal 647, E-08028 Barcelona, Spain): Kinetics of pyrolysis and gasification of subbituminous coal in a fluidized bed. *An. Quim. A-Fis. Tec.* 83(1987)214
- LUO, B., BENSON, G. C., LU, B. C. Y. (Univ. Ottawa Dept. Chem. Engn. 770 King Edward Ave, Ottawa Ontario, Canada K1N 9H4): Excess enthalpies and excess volumes for (2-methylbutan-2-01 + (n-decane or n-hexadecane). *J. Chem. Thermodyn.* 19 (1987)785
- MARIA, P. C., GAL, J. F., ELEGANT, L., AZZARO, M. (Univ. Nice Chim. Phys. Organ and Thermodyn. Exptl F-06034 Nice, France): A microcalorimeter method for the measurement of enthalpies of solution of gases in liquids. *Thermochim. Acta* 115 (1987)67
- MARCE, R. M., CALULL, M., BORRULL, F., CERDA, V. (Univ. Barcelona Fac. Quim. E-43005 Tarragona, Spain): A sensitive kinetic-thermometric method for Co(II) determination based on the iron-hydrogen peroxide reaction. *Thermochim. Acta* 117 (1987)89
- MAY, J. C., DELGROSSO, A., WHEELER, R. (US FDA Ctr. Drugs and Biol. of Biol. Res. and Review 8800 Rockville Pike Bethesda, MD 20892, USA): TG/MS interface: applications to determination of moisture in polysaccharides and freeze-dried biological products. *Thermochim. Acta* 115(1987)289

- MILLÁN, R. S., PANDO, C., RENUNCIO, J. A. R. (Univ. Oviedo Fac. Quim. E-33067 Oviedo, Spain): The simultaneous correlation of excess Gibbs energies of binary systems at different temperatures by means of the UNIQUAC equation. *Thermochim. Acta* 117(1987)271
- MINGE, J., WAPLAK, S., KRAJEWSKI, T. (Polish Acad. Sci. Inst. Molec. Phys. Smoluchowskiego 17-19. PL-60179 Poznan, Poland): EPR study of low-temperature phase transitions in NH_3^+ doped LiKSO_4 . *Phys. Status Solidi A. Appl. Res.* 101(1987)427
- MITTAL, R. K., RASHMI, V. (Indian Inst. Technol. New Delhi 110016, India): The effect of thermal history on the distribution of residual stresses in PMMA rods. *J. Appl. Polym. Sci.* 34(1987)627
- MONTAUDO, G., SCAMPORRINO, E., PUGLISI, C., VITALINI, D. (Univ. Catania Dipartimento Sci. Chim. Viale Andrea Doria 6, 1-93124 Catania, Italy): Identification of pyrolysis products of polysulphides by collisionally activated decomposition linked scanning mass spectrometry. *J. Anal. Appl. Pyrol.* 10(1987)283
- MORXANDO, P. J., PIACQUADO, N. H., BLESA, M. A. (Comis Nacl. Energia Atom Dept. Quim. Reactors, Ave Libertador 8250, RA-1429 Buenos Aires DF, Argentina): The thermal decomposition of iron(III) formate. *Thermochim. Acta* 117(1987)325
- MORENO-VIDA, M. I., COLACIO-RODRIGUEZ, E., MORENO-CARRETERO, M. N., RUIZ-SANCHEZ, J., SALAS-PEREGRIN, J. M. (Univ. Granada Dept. Inorgan E-18071 Granada, Spain): Thermal studies on purine complexes XIII. Bromocomplexes of some alkylxanthine derivatives. *Thermochim. Acta* 115(1987)45
- MORISSON, A., PETOT, C. (CNRS Proprietes Mecan. and Thermodyn. Mat. Lab. 9001, Ave JB Clement, F-93430 Villetteuse, France): Determination de l'enthalpie libre de formation des compères definis LaBi_2 et CeBi_2 . *Thermochim. Acta* 115(1987)167
- MUTHAL, P. L., DESMUKH, B. T., MOHARI, I. S. V. (Natl. Environm. Engn. Res. Inst. Nagpur 440010, India): Thermoluminescence in extended chain crystals of polyethylene. *Phys. Status Solidi; A-Appl. Res.* 101(1987)583
- NAGATA, I., NAKAMURA, S. (Kanazawa Univ. Dept. Chem. Engn. Kanazawa, Ishikawa 920, Japan): Prediction of vapor-liquid equilibrium from ternary liquid-liquid equilibrium data by means of local composition equations. *Thermochim. Acta* 115(1987)359
- NAKAGAWA, H., MATSUSHITA, Y., TSUGE, S. (Nagoya Univ. Fac. Engn. Dept. Synthet. Chem. Nagoya Aichi 464, Japan): Studies on thermal degradation behaviour of anionically copolymerized styrenes-divinylbenzene copolymers by high-resolution pyrolysis-gas chromatography. *Polymer* 28(1987)1512
- NAQOVI, M. K. (Indian Petrochem. Corp. Ltd. Himalaya House, 2nd Floor 23 Kasturba Gandhi Marg New Delhi, 110001 India): An alternative approach to the thermal stability of vinyl chloride-ethylene copolymers. *Polym. Degrad. Stabil.* 17(1987)341
- NASYBULLIN, S. A., KHAKIMULLIN, Y. N., ZARIPOV, I. N.: Flammability of oligoiso-butenes with oxygen-containing end groups. *J. Appl. Chem. Engl. Tr.* 60(1987)228
- NAUMOV, I. I., OLKHOVIK, G. A., PANIN, V. E. (Acad. Sci. USSR Inst. Phys. Strength and Mat. Technol. Tomsk, USSR): Thermodynamics of nonhydrostatic systems. *Zh. Fiz. Khim. SSSR* 61(1987)942
- NECHAEV, O. V., LAURIK, N. L. (Acad. Sci. USSR Inst. Chem. Kinet. and Combust. Novosibirsk, USSR): Temperature dependence of magnetic modulation of delayed fluorescence from the pyrene-diethylaniline exciplex system in methanol. *High Energ. Chem. Engl. Tr.* 21(1987)51
- NEUMANN, H., KUBIN, G., NEELS, H., NOWAK, E., PIRL, E. (Karl Marx Univ. Sekt. Phys. DDR-7010 Leipzig, Ger. Dem.

- Rep.): Heat capacity and thermodynamic properties of LiGaO_x from 180 to 700K. *Cryst. Res. Tech.* 22(1987)413
- NICHOLSON, J. W., WILSON, A. D. (Dept. Trade and Ind. Mat. Dev. Sub. Div. Gout. Chem. Lab. Cornwall House Waterloo RD London SE1 8 X 4, England): Thermal behaviour of films of partially neutralized poly(acrylic acid) 1. Influence of metal ions. *Brit. Polym. J.* 19(1987)67
- NICHOLSON, J. W., WILSON, A. D. (Dept. Trade and Ind. Govt. Chem. Lab. Mat. Res. Grp. Cornwall House Waterloo RD London SE1 8 X 4, England): Thermal behaviour of films of partially neutralized poly(acrylic acid) 2. The influence of univalent cations. *Brit. Polym. J.* 19(1987)449
- NIKOLAEV, A. F., PROKOP, A. A., SHUL'GINA, E. S., VINOGRADA, M. V. (Lensovvet Technol. Inst. Leningrad, USSR): Thermodynamics of sorption of water vapor by films of clutosan and its derivatives. *J. Appl. Chem. Engl. Tr.* 60(1987)209
- NISHCHENKOV, A. V., SHARNIN, V. A., SHORMANOV, V. A., KRESTOV, G. A. (Ivanovo Chem. Technol. Inst. Ivanovo, USSR): Thermodynamics of proton solvation in aqueous dimethylsulfoxide solvents. *Zh. Fiz. Khim. SSSR* 61(1987)927
- NUNES, S. P., WOLF, B. A., JEBERIEN, H. E. (Univ. Mainz Inst. Phys. Chem. D-6500 Mainz, Fed. Rep. Ger.): On the cooccurrence of demixing and thermoreversible gelation of polymer solutions 2. Thermodynamic background. *Macromolecules* 20(1987)1948
- ODEN, L. L., BEYER, R. P. (US Bur. Mines Albany Res. Ctr. POB 70 Albany OR, 97321 USA): Heat capacity of 2Al₄C₃ · SiC from 447 to 1447 and enthalpy of peritectic decomposition of Al₄C₃, 2Al₄C₃ · SiC and Al₄C₃SiC. *Thermochim. Acta* 115(1987)11
- ORLOVA, N. S., BODNAR, I. U. (Acad. Sci. BESSR Phys. Solids and Semicond. Inst. Minsk 220726 Belorussia, USSR): The anisotropy of the thermal expansion in the AgInC₂^{VII} chalcopyrite type compounds from the X-ray diffraction data. *Phys. Status Solidi A-Appl. Res.* 101(1987)421
- OTTONELLO, G., MORLOTTI, R. (CNR Ist. Geochronol. and Geochim. Isotop. Via Cardinale Maffi 36, 1-56100 Pisa, Italy): Thermodynamics of the (nickel + magnesium) olivine solid solution. *J. Chem. Thermodyn.* 19(1987)809
- PALEPU, R., SULLIVAN, A., MARANGONI, G. (Univ. Coll. Cape Breton Dept. Chem. Sydney NS, Canada BIP 6LZ): Viscosity and densities of binary mixtures of acetonitrile with substituted anilines. Part 4. *Thermochim. Acta* 117(1987)115
- PALISTRANT, M. E., PADURE, I. V. (Acad. Sci. MOSSR Inst. Appl. Phys. Kishinev Moldavia, USSR): Thermodynamical properties of highly anisotropic superconductor in the external magnetic field. *Fiz. Nizkikh. Temp.* 13(1987)460
- PANDEY, J. D., MISRA, K., SHUKLA, A., MUSHRAN, V., RAI, R. D. (Univ. Allahabad Dept. Chem. Bioacoust. Res. Lab. Allahabad 211002, Uttar Pradesh, India): Apparent molal volume, apparent molal compressibility, verification of Jones-Dole derivatives at 25, 30 and 40 °C. *Thermochim. Acta* 117(1987)245
- PANDYA, M. V., DESHPANDE, D. D., HUNDIWABE, D. G. (Indian Inst. Technol. Dept. Chem. Bombay 400076, India): Dynamic mechanical thermal and electrical properties of cast polyurethanes prepared using diol curatives. *Brit. Polym. J.* 19(1987)1
- PAP, I. S., BERTÓTI, I., MINK, G., SZÉKELY, T., HANTHAL, T., BLUMENTHAL, G.: Chlorination reactions of gibbsite and its thermal decomposition products with phosgene. *Thermochim. Acta* 115(1987)269
- PASHKOVSKII, E. E. (Acad. Sci. USSR Inst. Macromolec. CPDS Leningrad, USSR): Thermotropic liquid crystalline polymers with mesogenic groups in the principle chain. *Usp. Khim. SSSR* 56(1987)844
- PERRON, G. M., FRANCOEUR, J., DESNOYERS, J. E., KWAK, J. C. T. (Dalhousie

- Univ. Dept. Chem. Halifax NS, Canada B3H 4J3): Heat capacities and volumes in aqueous polymer and polymersurfactant solutions. *Can. J. Chem.* 65(1987)990
- PETRO, N. Sh., GIRGIS, B. S. (Natl. Res. Ctr. Surface Chem. Lab. Cairo, Egypt): Kinetic parameters of dehydrating iron oxide hydrate: DTA and DTG study. *Thermochim. Acta* 117(1987)127
- POPOV, A. I., KISELEV, Y. M., SUKHOVERKHOV, V. F., CHUMAEVSKII, N. A., KRASNYANSKAYA, O. A., SADIKOVA, A. T. (MV Lomonosov State Univ. Moscow, 117234 USSR): Study of thermal stability of tetrafluorobromates(III) of alkali metals. *Zh. Neorg. Khim. SSSR* 32(1987)1007
- PRABHAKAR, L. D., PRAKASH, K. M. M. S., CHOWDARY, M. C. (Sri Krishnadevaraya Univ. Dept. Chem. Anantapur 515003, India): Thermal behaviour of cobalt(II) and manganese(II) complexes of 1-(2'-hydroxybenzyl)-2-(2'-hydroxyphenyl)-benzimidazole. *Thermochim. Acta* 117(1987)385
- PRAKASH, K. M. M. S., PRABHAKAR, L. D., REDDY, D. V. (Sri Krishnadevaraya Univ. Dept. Chem. Anantapur 515003, India): Thermal behaviour of transition metal complexes of 4-methoxybenzaldehyde-4-phenyl-3-thiosemicarbazone. *Thermochim. Acta* 115(1987)297
- PRASAD, R., IVER, V. S., VENUGOPAL, V., SUNDARESH, V., SINGH, Z., SOOD, D. D. (Bhasha Atom. Res. Ctr. Div. Fuel Chem. Bombay, 400085 India): Partial and integral molar thermodynamic properties of Ni_xTe_{1-x} ($s, x = 0.595$ to 0.630) alloys. *J. Chem. Thermodyn.* 19(1987)891
- PRYAKHIN, A. N. (MV Lomonosov State Univ. Dept. Chem. Moscow 117234, USSR): Application of methods for the determination of thermodynamic characteristics of enzyme complexes from stationary kinetics based on a series of fermentative reactions. *Zh. Fiz. Khim. SSSR* 61(1987)1879
- RAAB, M., HNÁT, V., SCHMIDT, P., KOTULAK, L., TAIMR, L., POSPISIL, J. (Czechoslovak Acad. Sci. Inst. Macromolec. Chem. CS-16206 Prague 6, Czechoslovakia): The action of anthraquinone sensitizers in the photo-oxidative degradation of low density polyethylene mechanical evidence of dark processes. *Polym. Degrad. Stabil.* 18(1987)123
- RAJASEKHAR, P., REDDY, K. S. (Sri Venkateswara Univ. Dept. Chem. Tirupati 517502 Andhra Pradesh, India): Excess thermodynamic properties for mixtures of water and N,N-dimethylformamide at 303.15K. *Thermochim. Acta* 117(1987)379
- RANDZIO, S. I. (Polish Acad. Sci. Inst. Phys. Chem. UL Kasprzaka 4452, PL-01224 Warsaw, Poland): High-pressure, high-temperature thermodynamic properties of a cool-derived liquid. *Thermochim. Acta* 115(1987)83
- RAO, A. R., GUR, I. S., BHATNAGAR, H. L. (HL Kurukshetra Univ. Dept. Chem. Kurukshetra 132119 Haryana, India): Thermal studies on cellobiose and cellobiose halo-benzoates. *Thermochim. Acta* 117(1987)139
- RAO, B. A., REDDY, C. V., MURTHY, K. S., KISTAIAH, P. (Osmania Univ. Coll. Sci. Dept. Phys. Hyderabad 500007 Andhra Pradesh, India): High temperature lattice parameters and thermal expansion of $Y_{1-x}Ce_xAl_2$ ($x = 0.0, 15, 1$) intermetallics. *J. Less-Common Metals* 134(1987)91
- REDDY, B. K., NAGOBOOSHANAM, M., SOMAIAH, K., RAO, A. S. (Osmania Univ. PG Coll. Sci. Dept. Phys. Hyderabad 500007 Andhra Pradesh, India): Kinetic and trapping parameters of thermoluminescence in $NaMgF_3$ crystals. *Cryst. Res. Tech.* 22(1987)K39
- REZNITSKII, L. A. (MV Lomonosov State Univ. Dept. Chem. Moscow 117234, USSR): Thermochemical bond model in borides of transition metals. *Zh. Fiz. Khim. SSSR* 61(1987)1800
- RINCON, A., McNEILL, I. C. (Univ. Los Andreas Fac. Ciencias Dept. Quim. Polímeros Lab. Merida 5101, Venezuela): Thermal degradation of polycarbonate-poly(methyl methacrylate) blends by ther-

- mal volatilisan analysis. *Polym. Degrad. Stabil.* 18(1987)99
- RODANTE, F., ROSATI, R. (Univ. Rome Dipartimento Ingn. Chem. Mat. Mat. Prime and Met. 1-00100 Rome, Italy): Computer program of calculation method for a constant-environment calorimeter. *Thermochim. Acta* 117(1987)167
- RODER, H. M., DeCASTRO, C. A. N., MARDOLCAR, U. V. (NBS Div. Thermophys. Boulder CO 80303, USA): The thermal conductivity of liquid argon for temperatures between 100 and 140K with pressures to 70MPa. *Int. J. Thermophys.* 8(1987)521
- RUBTSOV, Y. I., KOZAKOV, A. I., ANDRIENKO, L. P., STRIZHEVSKII, I. I., MOSHKOVICH, E. B.: Rate of thermal decomposition of solid ammonium nitrate in the presence of moisture and excess nitric acid. *J. Appl. Chem.-Engl. Tr.* 60(1987)1
- SABBAH, R., ANTIPINE, I., COTEN, M., DAVY, L. (CNRS Ctr. Thermodyn. and Microcalorimetrie, 26 Rue 14 1EME Rio F-13003 Marseille, France): Quelques reflexions à propos de la mesure calorimétrique de l'enthalpie de sublimation ou vaporisation. *Thermochim. Acta* 115 (1987)153
- SAITO, Y., MARUYAMA, T., YAMANAKA, A. (Tokyo Inst. Technol. Res. Lab. Engn. Mat. 4259 Nagatsuta CHO Midori KU, Yokohama Kanagawa 227, Japan): Thermoanalytical investigation of the phase relation in BaBiO_{3-x}. *Thermochim. Acta* 115 (1987)199
- SANAHUJA, A., GOMEZ-ESTEVEZ, J. L. (Univ. Barcelona Fac. Fis. Dept. Fis. Fonamental Diagonal 645, E-08028 Barcelona, Spain): A new evaluation of the relative apparent molar enthalpies of KCl in water at 298.15K. *Thermochim. Acta* 117(1987)105
- SANDLE, N. K., YERMA, D. P. S., VARMA, I. K. (Indian Inst. Technol. Dept. Chem. New Delhi 110016, India): Thermal characterization of starch-g-acrylonitrile copolymers. *Thermochim. Acta* 115(1987)189
- SANTANDREA, R. P., MENSING, C., von SCHERING, H. G. (Max Planck Inst. Fest Korperforsch Heisenbergstr. 1. D-7000 Stuttgart 80, Fed. Rep. Ger.): Chemistry and structural chemistry of phosphides and polyphosphides 45. The thermal decomposition and thermodynamic properties of the alkali metal phosphides LiP_{1.5}(s), NaP_{1.5}(s), KP_{1.5}(s), RbP_{1.5}(s) CsP_{1.5}(s). *Thermochim. Acta* 117(1987)261
- SAVEL'EV, G. G., LISETSKII, V. N. (SM Kirov Polytech. Inst. Tomsk, USSR): Decomposition of barium acide in active nitrogen. *High Energ. Chem.-Engl. Tr.* 21(1987)74
- SAWHNEY, S. S., CHANDRA, N. (Dav. PG Coll. Dept. Chem. Dehra Dun. 248001, India): Affinity of plant auxins IAA, IBA and NAA to metals. *Thermochim. Acta* 115(1987)375
- SAWHNEY, S. S., DANGWAL, D. N., CHAUHAN, G. S. (Dav. PG Coll. Dept. Chem. Dehra Dun. 248001, India): Pyrolysis and kinetics of non-isothermal decomposition of La(III)- and Th(IV)-phenoxymethyl penicillin complexes. *Thermochim. Acta* 115 (1987)381
- SAWHNEY, S. S., ARORA, N. K. (Dav. PG Coll. Dept. Chem. Dehra Dun. 248001, India): Equilibrium analysis of La(III)- and Pr(III)-3-methyl-5-hydroxy-1,4-naphthalenedione systems. *Thermochim. Acta* 115 (1987)385
- SCHIEBEL, H. M., GRIES, O., SCHUPPEL, R., SCHULZE, P. (Tech. Univ. Brunswick Inst. Organ. Chem. Hagenring 30 D-3300 Brunswick, Fed. Rep. Ger.): Identification of conjugated metabolites of pyrrolidine drugs in human urine by pyrolysis-mass spectrometry. *J. Anal. Appl. Pyrol.* 10(1987)267
- SEMENSOV, Y. V., KARAVAEV, M. M.: Thermolysis of Ce(NO₃)₃ · 6H₂O and Ga(NO₃)₃ · 8H₂O. *Zh. Neorg. Khim. SSSR* 32(1987)1561
- SERAGELDIN, M. A., WANG, H. (Michigan Technol. Univ. Dept. Chem. and Chem. Engr. Moughton MI, 49931 USA): Effect of operating parameters on time to decomposition of high density polyethylene and

- chlorinated polyethylenes. *Thermochim. Acta* 117(1987)157
- SHARMA, S., SAXENA, K. K., SAXENA, R. S. (Malaviya Reg. Engn. Coll. Dept. Chem. Jaipur 302017, India): Thermodynamics and stability of Cu-2, Ni-2, Co-2 and Mn-2 complexes with (L)₂-aminobutanedioicacid 4-amide. *An. Quim. B-Inorg. Anal.* 83 (1987)125
- SILVESTROVA, I. M., PISAREVSKII, Y. V., SENYUSHENKOV, P. A., KRUPNY, A. I., VOSZKA, R., FÖLDVÁRI, I., JANSZKY, J. (Acad. Sci. USSR Inst. Crystallog. Moscow U-71, USSR): Temperature dependence of elastic of paratellurite. *Phys. Status Solidi A-App. Res.* 10(1987)437
- SIMONI, J. O., CHAGAS, A. P. (Univ. Estadual Campinas Inst. Quim. BR-13100 Campinas SP, Brazil): An isothermal labyrinth flow calorimeter with thermistor. *Thermochim. Acta* 115(1987)31
- SINGER, L. S., RIFFLE, D. M., CHERRY, A. R. (525 Race St. Berea OH, 44017 USA): High temperature centrifugation: application to mesophase pitch. *Carbon* 25 (1987)249
- SINGH, S., BASNET, R. B., GARG, B. S., SINGH, R. P. (Delhi Dept. Chem. Delhi, 110007 India): Thermodynamic stabilities of lanthanide complexes of the biologically active complexing agent 2-acetyl-pyridine-thiosemicarbazone, (2-APT). *Thermochim. Acta* 117(1987)291
- SKUDLARSKI, K., DUDEK, J., KAPALA, J. (Wroclaw Tech. Univ. Inst. Inorgan. Chem. and Met. Rare Elements PL-50370 Wroclaw, Poland): Thermodynamics of sublimation of cadmium halides investigated by the mass-spectrometric method. *J. Chem. Thermodyn.* 19(1987)857
- SLANINA, Z. (Czechoslovak Acad. Sci. Heyrovsky Inst. Phys. Chem. and Electrochem. Machova 7, CS-12138 Prague 2, Czechoslovakia): The relative stability in and thermodynamic functions of the system of Si₂H₄(g) isomers. Comparison of result from two different evaluations of the system energetics. *Int. J. Thermophys.* 8(1987)567
- SLAVIN, A. A., ABRAMZOS, A. A., SLAVINA, Z. N., KOMAROV, E. V., PUCHKOV, A. I. (All Union Antibiot and Med. Enzyme Res. Technol. Inst. Leningrad, USSR): Liquid and solid state and thermodynamic properties of iodine, bromine and chlorine. *Zh. Obshch. Khim. SSSR* 57 (1987)969
- SOLDATOVA, E. D., MAZHAROV, M. V. (Dnepropetrovsk State Univ. Dnepropetrovsk, Ukraine, USSR): Asymptotic behaviour of thermodynamic values near the critical point. *Zh. Fiz. Khim. SSSR* 61(1987)910
- SRIVASTAVA, A., GUNJIKAR, V. G., SINHA, A. P. B. (Natl. Chem. Lab. Poona 411008 Maharashtra, India): Thermoanalytical studies of zinc citrate, bismuth citrate and calcium citrate. *Thermochim. Acta* 117(1987)201
- STARTSEV, O. V., ABELIOV, Y. A., KIRILLOV, V. N., VAPIROV, Y. M., DONSKOI, A. A., BUDAKOVA, F. G.: Effect of phenyl-containing substituents on physical properties of organosilicon elastomers at low temperatures. *Vysokomol. Soedin. Ser. A* SSSR 29(1987)988
- STARTSEV, V. M., CUGUNOVA, N. F., MOROZOVA, N. I., NESTEROV, N. V., KRASIKOV, V. O., OGAREV, V. A. (Acad. Sci. USSR Inst. Phys. Chem. Moscow V-71, USSR): Changes of rheological properties and molecular mass of polyamide acid during its thermal imidization. *Vysokomol. Soedin. Ser. A* SSSR 29(1987)458
- STORONKIN, A. V. (AA Zhdanov State Univ. Leningrad, B-164 USSR): Thermodynamic criterion of mutual stability of macroscopic phases. *Zh. Fiz. Khim. SSSR* 6(1987)1934
- STRAKHOV, A. N., KUDRYAVTSEV, S. G., KRESTOV, G. A. (Acad. Sci. USSR Inst. Chem. Nonaqueous Solut. Ivanovo, USSR): Thermodynamics of isotope effects in dissolution of noble gases in mixed solvents. I. Isotope effects in solubility of Ne, Ar, Kr

- and Xe in $\text{CH}_3\text{OH}-\text{H}_2\text{O}$, $\text{CD}_3-\text{CH}\cdot\text{D}_2\text{O}$, $\text{CH}_3\text{OD}-\text{D}_2\text{O}$ and $\text{CH}_3\text{OD}-\text{D}_2\text{O}$ mixtures. *J. Struct. Chem.-Engl. Tr.* 27(1986)587
- STRATTON, T. G., TULLER, H. L. (MIT, Dept. Mat. Sci. and Engn. Crystal Phys. and Opt. Electr. Lab. Cambridge, MA 02139, USA): Thermodynamic and transport studies of mixed oxides. The CeO_2-UO_2 system. *J. Chem. Soc. Faraday Trans. II* 83(1987)1143
- SU, S. K., TAKAHASHI, T., KODAMA, T., HIDAI, M., UCHIDA, Y. (Univ. Tokyo Fac. Engn. Dept. Ind. Chem. Bunkyo KU, Tokyo 113, Japan): Iron coating on carbon fibers by thermal decomposition of iron carbonyl compounds in liquid phase. *Nippon Kagaku Kaishi* 5(1987)877
- SZPAKOWSKA, M., URUSKA, I. (Gdansk Tech. Univ. Dept. Phys. Chem. PL-80952 Gdansk, Poland): Solid and solution complexes of copper(II) acetate with pyridine: stoichiometry, spectral and thermodynamic characteristics. *Thermochim. Acta* 117 (1987)59
- SWEET, J. N., ROTH, E. P., MOSS, M. (Sandia Natl. Labs. Div. Thermophys. Properties Albuquerque, NM 87185 USA): Thermal conductivity of insonel 718 and 304 stainless steel. *Int. J. Thermophys.* 8 (1987)593
- TANAKA, S. (Natl. Chem. Lab. Ind. Yatabe Ibaraki 305, Japan): Linear theory applied to a calorimeter during quasi-isothermal operation. *Thermochim. Acta* 115 (1987)303
- TANAKA, Y., TAKEDA, N., FUJITA, D. (Chuo Univ. Fac. Sci. and Engn. Dept. Ind. Engn. Tokyo 112, Japan): Kinetic study on the thermal decomposition of cytidine and uridine. *Thermochim. Acta* 115(1987)281
- TANIEWSKA-OSINSKA, S., WOZNICKA, J. (Univ. Lodz, Dept. Phys. Chem. UL Nowotki 18, PL-91416 Lodz, Poland): Dissolution enthalpy of NaI in mixtures of ethylene glycol + aliphatic alcohols at 313.15K. *Thermochim. Acta* 115(1987)119
- TANIEWSKA-OSINSKA, S., NOWICKA, B. (Univ. Lodz Dept. Phys. Chem. UL Nowotki 18, PL-91416 Lodz, Poland): Enthalpy of transfer of ions from water to water-tetrahydrofuran mixtures. *Thermochim. Acta* 115(1987)129
- TAYLOR, R. (Th. Carl Schorlemmer Leuna Merseburg Sekt. Chem. DDR-4200 Merseburg, Ger. Dem. Rep.): The mechanism of thermal eliminations Part XXIII (1). The thermal decomposition of pyruvic acid. *Int. J. Chem. Kinet.* 19(1987)809
- TIMOSHIN, V. S. (Ivanovo Chem. Technol. Inst. Dept. Phys. Ivanovo, USSR): Estimation of liquid thermal capacity. *Izv. Vyssh. Uch. Zav. Kim. Khim. T.* 30(1987)112
- TOLCHEV, A. V., KLESHCHEV, D. G.: Thermolysis of Na_2H -forms of antimony pentaoxide hydrate. *Zh. Neorg. Khim. SSSR* 32(1987)1582
- TOLMACHEV, V. V., SEMENOV, L. V., GAILE, A. A., PROSKURYAKOV, V. A. (Lensovet Technol. Inst. Leningrad, USSR): Thermodynamic functions of n-alkane complexes with crystalline urea. *J. Appl. Chem.-Engl. Tr.* 60(1987)128
- TOMASSETTI, M., CAMPANELLA, L., TOMALLINI, R., MECUCCI, C. (Univ. Rome La Spaienza Departimento Chim. 1-00185 Rome, Italy): Thermogravimetric analysis of fresh and archeological waterlogged woods. *Thermochim. Acta* 117(1987)297
- UGAI, Y. A., ANOKHIN, V. Z., MALEVSKAYA, L. A., KHOBIV, A. M. (Voronezh State Univ. Voronezh, USSR): Kinetics of silicon thermal oxidation in SiTiSi_x , St-Pt sandwich systems. *Zh. Fiz. Khim. SSSR* 61(1987)1979
- VASILEV, V. P., KOCHERGINA, L. A., GROSHEVA, S. G., MAKSIMOV, A. I., TSIRULNIKOVA, N. V. (Ivanovo Chem. Technol. Inst. Ivanovo, USSR): Thermodynamics of step dissociation reactions on iminodimethylene phosphoric acid at 298K. *Zh. Fiz. Khim. SSSR* 61(1987)1510

- VEITSMAN, E. V.: Statistic thermodynamic of interphase domains of interface. *Zh. Fiz. Khim. SSSR* 61(1987)1713
- VENKATARMAN, A., MUKHEDKAR, V. A., RAHMAN, M. M., NIKUMBH, A. K., MUKHEDKAR, A. J. (Univ. Poona Dept. Chem. Poona 411007 Maharashtra, India): Synthesis of γ -Fe₂O₃ by thermal decomposition of FeC₄H₂O₄ · H₂O Part II. *Thermochim. Acta* 115(1987)215
- VENNEMANN, N., LECHER, M. D., OBERTHUR, R. C. (Univ. Osnabrück Barbarastr. 7, D-4500 Osnabrück, Fed. Rep. Ger.): Thermodynamics and conformation of polyoxyethylene in aqueous solution under high pressure 1. Small angle neutron scattering and densitometric measurements at room temperature. *Polymer* 28(1987)1738
- VICENTINI, G., ZINNER, C. B., DUNSTAN, P. O. (Univ. São Paulo SP, Brazil): Thermogravimetric investigation of 4-picoline-N-oxide(4-pic NO) lanthanoid trifluoromethanesulfonate complexes. *Thermochim. Acta* 115(1987)389
- VYUNNIK, I. N., KALUGIN, O. N., KALTENKO, V. N. (AM Gorkii State Univ. Kharkov, Ukraine, USSR): Polythermal study of electroconductivity and dissociation of lithium halides in hexanol. *Zh. Obshch. Khim. SSSR* 57(1987)676
- WALCZAK, J., KURZAWA, M., FILIPEK, E. (Tech. Univ. Szczecin Inst. Fundamental Chem. 42 Piastow ST PL-71065 Szczecin, Poland): Phase equilibria in the system Fe₂(MoO₄)₃ · V₂O₅. *Thermochim. Acta* 117(1987)9
- WATANABE, J., NAGASE, T. (Tokyo Inst. Technol. Dept. Polymer Chem. Meguro KU, Tokyo 152, Japan): Thermotropic poly-peptides IV. Thermotropic cholesteric mesophase of copolyglutamates based on γ -benzyl L-glutamate and γ -alkyl L-glutamate. *Polym. J.* 19(1987)781
- WEIR, N. A., WHITING, K., ARCT, J., McCULLOCH, G. (Lakehead Univ. Dept. Chem. Thunder Bay Ontario, Canada P7B 5E1): Thermal degradation of keto-polymer Part I. Poly(vinylacetophenone). *Polym. Degrad. Stabil.* 18(1987)293
- WENDLANDT, W. W., DOSCH, E. L. (Univ. Houston Dept. Chem. Houston TX 77004 USA): The deltatherm V differential thermal analysis and thermogravimetry system. *Thermochim. Acta* 117(1987)45
- WORMALD, C. J., EYEARS, J. M. (Univ. Bristol Sch. Chem. Bristol BS8 17S Avon, England): Excess molar enthalpies and excess molar volumes of {CO₂ + (1-x) C₆H₆, CH₃} at 298.15, 304.10 and 308.15K from 7.5 to 12.6 MPa. *J. Chem. Thermodyn.* 19(1987)845
- YADAV, Y. S., JAIN, P. C. (Gout, Coll. Dept. Phys. Narnau, India): Melting behaviour of oriented isotactic polypropylene. *Thermochim. Acta* 117(1987)97
- YAKUNIN, N. A., BARANOV, A. V., MORYGYANOV, A. P., MEL'NIKOV, B. N. (Acad. Sci. USSR V-71, USSR): Calorimetric method of determination of glass transition temperatures of polymers in solvents medium. *Vysokomol. Soedin. Ser. A SSSR* 29(1987)660
- YAMANAKA, A., MARUYAMA, T., ATAKE, T., SAITO, Y. (Tokyo Inst. Technol. Res. Lab. Engr. Mat. 4259 Nagatsuta CHO Midori KU, Yokohama, Kanagawa 227, Japan): Preparation of BaPbO₃ from coprecipitated barium-lead oxalate. *Thermochim. Acta* 115(1987)207
- YATSKOVSKII, A. M., BABAK, V. N., KHOLPANOV, L. P., EVDOKIMOV, V. I. (Acad. Sci. USSR Chernogolovka, 142432 USSR): Thermographic method for studying chemical reactions in a fluidized bed. *J. Appl. Chem. Engl. Tr.* 60(1987)92
- YOSHITAKE, N., FURUKAWA, M., YOKOYAMA, T. (Ariake Natl. Coll. Technol. Dept. Ind. Chem. 150 Higashi Hagiya Machi Fukuoka 836, Japan): Direct pyrolysis mass spectrometry of diphenyl methyl aliphonate. *Polym. Degrad. Stabil.* 18(1987)341
- ZIEGLER, T., TSCHINKE, V., URSENBUCH, C. (Univ. Calgary Dept. Chem. Calgary

- Alberta, Canada T2N 1N4): Thermal stability and kinetic lability of the metal-carbonyl bond. A theoretical study on $M(CO)_6$ ($M = Cr, Mo, W$), $M(CO)_5$ ($M = Fe, Ru, Os$), and $M(CO)_4$ ($M = Ni, Pd, Pt$). *J. Amer. Chem. Soc.* 109(1987)4825
- ZOLOTAIEV, P. P., KOLOSOV, N. V. (All Union Res. and Design Chromat. Inst. Moscow, USSR): Thermal flow-type frac-
- tionation of channels with asymmetric rate profils. *Zh. Fiz. Khim. SSSR* 61(1987)1031
- ZULFIGAR, S., ZULFIGAR, M., KAUSAR, T., McNEILL, I. C. (Quaid I Azam Univ. Dept. Chem. Islamabad, Pakistan): Thermal degradation of phenyl methacrylate-methyl methacrylate copolymers. *Polym. Degrad. Stabil.* 17(1987)327