

Bibliography Section

- ABOU SEKKINA, M. M., EL-HELBAWAY, S. M. (Tanta Univ. Fac. Sci. Dept. Chem. Tanta, Egypt): Further studies on the mechanism of thermal decomposition of some related quimoline metal chelates in the solid state. *Thermochim. Acta* 81 (1984) 223
- ABOU SEKKINA, M. M., EWAIDA, M. A., SABRY, M. M. F. (Tanta Univ. Fac. Sci. Dept. Chem. Tanta, Egypt): Further studies on the effects of ionizing radiation, heating cycles and quenching on the temperature dependence of the electronic conductivity of different dilute Al-Si and Al-Fe alloys. *Thermochim. Acta* 81(1984) 213
- ADAMS, K., GLASSON, D. R., JAYAWEERA, S. A. A. (Plymouth Polytechn. Dept. Environm. Sci. John Graymore Chem. Labs. Plymouth PL-4 SAA, Devon, England): Vacuum balance and related studies of cokes used in steel production. *Thermochim. Acta* 82(1984) 121
- ADKINS, J. A., RISBY, T. H., SCOCCA, J. J., YASBIN, R. R., EZZELL, J. W. (John Hopkins Univ. Sch. Hyg. and Publ. Hlth. Dept. Environm. Chem. Baltimore, MD 21211, USA): Linear-programmed thermal degradation methane chemical-ionization mass spectrometry II. Defined compounds and lipid-containing envelope constituents from Salmonella. *J. Anal. Appl. Pyrol.* 7(1984) 35
- AKANNI, M. S., BURROWS, H. D., BEGUN, P. B. (Univ. IFE Dep. Chem. ILE, IFE, Nigeria): Product analysis, reaction mechanism and kinetics of the thermal decomposition of some even chain-length, mercury(II) carboxylates. *Thermochim. Acta* 81(1984) 45
- AKHMADULLINA, F. Y., KUCHERUK, L. U., GOLDSHTEIN, I. P., GURANOVA, E. N., GELFOND, A. S., SHCHERBAKOVA, E. S. (LY Karpov Physiochem. Res. Inst. Moscow, USSR): Thermodynamics of the formation and dipole moments of H-complexes of tertiary arsine oxides with trifluoroacetic acid. *Zh. Obshch. Khim. SSSR* 54(1984) 2249
- AKOPYAN, R. S., ZELDOVICH, B. Y. (Acad. Sci. USSR, Inst. Mech. Problems Moscow U-71, USSR): Thermomechanical effects in deformed nematics. *Zh. Eksp. Teor. Fiz. SSSR* 87(1984) 1660
- ALAMO, R., DOMSZY, R., MANDELKERN, L. (Florida State Univ. Dept. Chem. Tallahassee, FL 32306, USA): Thermodynamic and structural properties of copolymers of ethylene. *J. Phys. Chem.* 88(1984) 6587
- ALEKSEEV, A. I., BARINOVA, L. D., ROGACHEVA, N. P., KULINICH, O. V. Thermodynamic and experimental analysis of equilibria in the $\text{Na}_2\text{O-CaO-CO}_2\text{-H}_2\text{O}$ system. *J. Appl. Chem. Engl. Tr.* 57(1984) 1163
- ALEKSEEV, A. I., BARINOVA, L. D., ROGACHEVA, N. P., KULINICH, O. V. Thermodynamic values of binary carbonate salts $\text{K}_2\text{CO}_3\text{-MgCO}_3\text{-nH}_2\text{O}$. *J. Appl. Chem. Eng. Tr.* 57(1984) 1168
- AL-KASS, S., TOSSONIAN, A. A., ADAM, G. A. (Univ. Basrah, Coll. Sti. Dept. Chem. Basrah, Iraq): Synthesis and characterisation of some new thermografted polycarbonates. *Thermochim. Acta* 81(1984)207
- AL-MALAIKA, S., CHAKRABORTY, K. B., SCOTT, G., TAO, Z. B. (Univ. Aston Dept.

- Chem. Gosta Green, Birmingham 84 7ET, W Midlands, England): Mechanism of antioxidant action: The behaviour of 4-alkyl-2-mercaptothiazolines during thermal and photo-oxidation of polypropylene. *Polym. Degrad. Stab* 10(1985) 55
- AMIRTHALINGAM, V. (Bhabha Atom Res. Ctr. Water Chem. Sect. Bombay 400085, India): Thermal expansion and crystallographic phase transformation in K_2CrO_4 . *J. Thermal Anal.* 29(1984) 597
- ANANTHASWAMY, J., ATKINSON, G. (Univ. Oklahoma, Dept. Chem. Norman, OK 73019, USA): Thermodynamics of concentrated electrolyte mixtures 5. Review of the thermodynamic properties of aqueous calcium chloride in the temperature range 273.15–373.15 K. *J. Chem. Eng. Data* 30(1985) 120
- ANDREEV, A. I., FEDOROV, V. A. (Siberian Technol. Inst. Krasnoyarsk USSR): Heat of thiocarbamide dissolution in aqueous and aqueous-alcohol solutions of lithium and sodium perchlorate. *Zh. Fiz. Khim. SSSR* 58(1984) 2770
- ANSARA, I., DUTARTRE, D. (Ecole Natl. Super Physicochim. and Electromet. Grenoble Thermodynam. and Physchim. Metallurg. Lab. F-38402 ST Martin Dheres, France): Thermodynamic study of the Al-Ga-As-Ge system. *Calphad* 8 (1984) 323
- ARNOLD, P., LILLEY, T. H. (Univ. Sheffield, Dept. Chem. Sheffield S 3 7HF, S Yorkshire, England): Aqueous solutions containing amino acids and peptides. 14. The enthalpy of interaction of β -alanine and urea. *J. Chem. Thermodyn.* 17(1985) 99
- ASANO, T. (Shizuoka Univ. Fac. Sci. Dept. Phys. Oya Shizuoka 422, Japan): Melt-crystallization of n-alkanes and polyethylene in a temperature gradient. 2. Melt-orientation of hexatriacetone ($C_{36}H_{74}$). *Polym. Bull.* 12(1984) 543
- ASHWORTH, A. J., PRICE, G. J. (Univ. Bath. Sch. Chem. Bath BA 2 7AY, Avon, England): Use of the magnetic suspension balance for the study of polymer solutions. *Thermochim. Acta* 82(1984) 161
- AUDISIO, G., SILVANI, A., BELTRAME, P. L., CARNITI, P. (CNR, Ist Chim. Macromolec. Via E Bassine 15-A, 1-20133, Milan, Italy): Catalytic thermal degradation of polymers. Degradation of polypropylene. *J. Anal. Appl. Pyrol.* 7(1984) 83
- BABA, A., IKEZAKI, K. (Klio Univ. Fac. Sci. and Technol. Dept. Instrumental Eng. Yokohama, Kanagawa 223, Japan): Thermally stimulated currents from corona-charged polypropylene films: a thermal effect of vacuum deposition of metallic electrodes. *J. Appl. Phys.* 57(1985) 359
- BADEN, W., SCHMIDT, P. C., WEISS, A. (TH Darmstadt, Inst. Phys. Chem. Phys. Chem. 3, Petersenstr. 20, D-6100 Darmstadt, Fed. Rep. Ger.): Temperature dependence of 1H Knight shift and magnetic susceptibility of $(\alpha, \alpha')\text{-Nb-H}_x$. *J. Less-Common Metals* 104(1984) 99
- BAILEY, R. T., CRUICKSHANK, F. R., McLEOD, A., PUGH, D., FARADAY, A. G. (Univ. Strathclyde Dept. Pure and Appl. Chem. 295 Cathedral St. Glasgow G1 1XL, Scotland): Thermal lens measurements of thermal conductivity and orientation in polyethylene terephthalate. *Polym. Commun.* 26(1985)23
- BALEK, V., KŘIŽ, J. (Nucl. Res. Inst. CS-25068 Rez, Czechoslovakia): Theory of emanation thermal analysis. III. Experimental verification of the mathematical model for inert gas release from porous solids. *Thermochim. Acta* 81(1984) 335
- BALK, P., ASLAM, M., YOUNG, D. R. (Rhein Westfal Th Aachen, Inst. Semicond Electr. Sonderforsch Berech 202, D-5100 Aachen, Fed. Rep. Ger.): High temperature annealing behaviour of electron traps in thermal SiO_2 . *Solid State Electron* 27(1984) 709
- BANSAL, R. K., AGARWAL, R. (Indian Inst. Technol. Dept. Chem. Hauz Khas, New Delhi, 110016 India): Studies on thermal stability of epoxy resins. *Angew. Macromol. Chem.* 127(1984) 43
- BANYAVICHYUS, R. B., MIGONENE, Z. B., ASKADSKII, A. A. (Acad. Sci. LiSSR, Inst.

- Semicond. Phys. Vilnius, USSR): A relaxational properties of heat-resistant polymers in the low temperatures region. *Vysokomol. Soedin. Ser. A SSSR* 26(1984) 2604
- BARANSKII, P. I., GRISHCHENKO, T. G., SAVYAK, V. V., SIMONENKO, YU, V. (Acad. Sci. UKSSR, Inst. Semicond. Prospekt Nauki 115, Kiev 252028, UKSSR): Temperature dependence of the thermoelectric characteristic of n-Si elastically strained in the [100]direction. *Phys. Status Solidi A Appl. Res.* 86(1984) K63
- BARONE, G., DELLAGATTA, G., ELIA, V. (Univ. Napoli, Dipartimento Chim. Via Mezzocannone 4, I-80134 Napoli, Italy): Direct determinations for enthalpies of vaporization of liquid compounds by a miniaturized effusion cell adapted to a commercial microcalorimeter. *J. Thermal Anal.* 29(1984) 763
- BARRAU, J., ELAMINE, M., RIMA, G., SATGÉ, J. (Univ. Toulouse 3, Chim. Organominéraux Lab. CNRS, ERA 829, 118 Route Narbonne F-31062 Toulouse, France): Thermolyse et photolyse d'hétérocycles à liaison Ge-S-Mise and évidence de la formation de germylènes et germathiones. *J. Organometal. Chem.* 277(1984) 323
- BASSI, P. S., RANDHAWA, B. S., JAMWAL, H. S. (Guru Nanak Dev. Univ. Dept. Chem. Amritsar 143005, Punjab, India): Mossbauer study of the thermal decomposition of iron(III) citrate pentahydrate. *J. Thermal Anal.* 29(1984) 439
- BEGISHEV, I. R., POLUEKTOV, V. A., PAPLAUSKAS, A. B., POLYAKOV, Y. A. Thermal capacity and heat transformations of sodium perchlorates. *Zh. Fiz. Khim. SSSR* 58(1984) 2928
- BENEDETTI, A., FAGHERAZZI, G., MERIANI, S., SORAU, G. (Univ. Venezia Dipartimento Spettroscopia, Calle Larga S Marta, DD 2137, I-30123 Venezia, Italy): Crystallization of glasses in the system $\text{Si}_2\text{O}_7\text{Li}_2\text{O}-\text{TiO}_2-\text{Al}_2\text{O}_3$. Investigates insitu at high temperature by XRD and DTA methods. *J. Thermal Anal.* 29(1984) 733
- BERCHIESI, G., LOBBIA, G. G., BERCHIESI, M. A., VITALI, G. (Univ. Camerino Dipartimento Sci. Chim. I-62032 Camerino, Italy): Supercooling phenomena in the binary systems acetamide-electrolytes. *J. Thermal Anal.* 29(1984) 729
- BEREZOVSKII, G. A., SUKHOVEI, K. S., CHUSOVA, T. P., PAUKOV, I. E. (Acad. Sci. USSR, Inst. Inorgan. Chem. Novosibirsk, USSR): Thermochemical properties of indium monoiodide in the 7,15-343K range. *Zh. Fiz. Khim. SSSR* 58 (1984) 2577
- BERTOLOTTI, M., FERRARI, A., SIBILIA, C., TAMBURRINI, M., BORDONI, F. J., JANI, P. (Univ. Rome, Dipartimento Energet. Sezione Fis. I-00100 Rome, Italy): An interferometric method for measurement of the thermal conductivities of solids. *J. Thermal Anal.* 29(1984) 719
- BEYER, R. P., BENNINGTON, K. O., BROWN, R. R. (US Bur. Mines, Albany Res. Ctr. Thermodynam. Sect. POB 70, Albany, OR 97321, USA): Sodium zirconium oxide molar enthalpy of formation at 298.15K and molar heat capacity from 5 to 1168K. *J. Chem. Thermodyn.* 17(1985) 11
- BHULYAN, A. L. (POB 13 Head PO Comilla, Bangladesh): Some aspects of the thermal stability action of the structure in aliphatic polyamides and polyacrylamids. *Polymer* 25(1984) 1699
- BITTNER, D. N., BRETZ, M. (Univ. Florida Dept. Phys. Gainesville, FL 32611, USA): Heat capacity of antimony pentachloride-intercalated graphite. *Phys. Rev. B-Condensed Matter* 31(1985) 1060
- BLACHNIK, R., WICKEL, V. (Univ. Osnabruck, Fachbereich Biol. Chem. D-4500, Osnabruck, Fed. Rep. Ger.): Thermal behaviour of A_4B_3 cage molecules (A=P, AS, B=S,Se) *Thermochem. Acta* 81(1984) 185
- BLUMENTHAL, W., EVANS, A. G. (Univ. Calif. Berkeley Lawrence Berkeley, CA, 94720, USA): High-temperature failure of polycrystalline alumina: II. Creep crack

- growth and blunting. *J. Amer. Ceram. Soc.* 67(1984) 751
- BOGDANOV, A. P. Thermal dependence of the process of molecular oxygen solid-phase carrier deoxygenation. *Zh. Neorg. Khim. SSSR* 30(1985) 245
- BOGOMOL'NYI, G. M., FREIDIN, B. G. (Kuzbass Polytech. Inst. Kemerovo, USSR): Directivity of thermal decomposition of 3-hydroperoxybutanone in oxidized butanone. *J. Appl. Chem. Engl. Tr.* 57(1984) 1080
- BONNET, J. E., GRIESSEN, R. (Univ. Paris 11 CNRS, ERA 720, F-91405 Orsay, France): A low temperature phase transition in Y-H solid solution. *J. Less-Common Metals* 103(1984) 133
- BONTSCHEWAMLADENAWA, Z., VASSILEV, V. (Higher Inst. Chem. Technol. Fac. Chem. and Technol. Semicond Mat. and Elementary Elect. BU-1156 Sofia, Bulgaria): Properties and phase diagram of silver-chalcogenide systems. *J. Thermal Anal.* 29(1984) 523
- BORCHARD, W., HERMANN, B. (Univ. Duisburg Gesamtsch D-4100 Duisburg, Fed. Rep. Ger.): A new temperature measuring device for rotating systems. *Angew. Makromol. Chem.* 128(1984) 189
- BORISOV, V. A., GUBIN, S. A., ODINTSOV, V. V., PEPEKIN, V. I. (Acad. Sci. USSR, Inst. Chem. Phys. Moscow V-71, USSR): Thermodynamic calculation of complex chemical systems at high pressure and partial non-equilibrium. *Khim. Fiz.* 3(1984) 1042
- BOTTINI, S. B., SAVILLE, G. (Univ. Nacl. Sur. Plapiqui, RA-800 Bahia Blanca, Argentina): Excess enthalpies for (water+nitrogen) (g) and (water+carbon dioxide) (g) at 520 to 620K and up to 4,5 MPa. *J. Chem. Thermodyn.* 17(1985) 83
- BRAR, S., SANDHU, S. S., BRAR, A. S. (Indian Inst. Technol. Dept. Chem. New Delhi 110016, India): Thermolysis and photolysis of hexaamminecobalt(III) tris (oxalato)-ferrate(II)- a Mossbauer study. *Indian J. Chem. Sect. A.* 23(1984) 892
- BRAUN, D., GÜNTHER, P. (Deutsch Kunststoff Inst. D-6100 Darmstadt, Fed. Rep. Ger.): Thermogravimetric investigations on urea-formaldehyde-foams. *Angew. Makromol. Chem.* 128(1984) 1
- BRENDEL, W., SAMARTZIS, T., BRENDEL, C., KREBS, B. (Univ. Munster, Inst. Anorgan. Chem. Correns Str. 36, D-4400 Munster, Fed. Rep. Ger.): TG and DTA investigations on hexaiodometallates. *Thermochim. Acta* 83(1985) 167
- BRONNIKOV, S. V., VETTEGREN' V. I., KORZHAVIN, L. N., FRENKEL' S, Ya. (Acad. Sci. USSR, Inst. Macromolec. CPDS, Leningrad, USSR): Low-temperature dependence of strength of polyimide fibers. *Vysokomol. Soedin. Ser. A SSSR.* 26(1984) 2483
- BROSTOW, W., MACIP, M. A., GRINDLEY, T. (Drexel Univ. Dept. Mat. Engn. Philadelphia PA, 19104, USA): Volumetric properties of organic liquids as a function of temperature and pressure: experimental data and prediction of compressibility. *Mat. Chem. Phys.* 12(1985) 37
- BUCCI, R., CARUNCHIO, V., MAGRI, A. D., MAGRI, A. L. (Univ. La Sapienza, Dipartimento Chim. 1-0085 Rome, Italy): The thermal decomposition reactions of bis-(pyridine-2-aldoxime)-copper(II) complexes. *J. Thermal Anal.* 29(1984) 679
- BUNDA, V. V., SHITIKHA, M. V., GOLOVEL, V. M. (Uzhgorod State Univ. Uzhgorod, UKSSR): Thermal stability of rare earth element oxychlorides. *Zh. Neorg. Khim. SSSR* 29(1984) 3045
- BURGOT, G., BURGOT, J. L. (Univ. Rennes 1 Uer, Medicament Chim. Analyt. Lab. F-35043, Rennes, France): Détermination simultanée de l'enthalpie, de l'enthalpie libre via la coefficient de portage et de l'entropie de transfert eau/n-octanol de l'éphédrine par titrimétrie thermométrique. *Thermochim. Acta* 81(1984) 147
- BURKHANOV, A. S. (KE Tsiolkovskii Aero-naut. Engn. Inst. Moscow, USSR): Electrical conductivity and thermoemf in binary

- systems of copper chalcogenides in liquid and solid states. *Inorg. Mater-Engl. Tr.* 20(1984) 333
- BURY, R., TREINER, C. (Univ. Paris 06, Electrochim. Lab. 4 Place Jussieu, F-75230, France): Heats of solution of aliphatic and aromatic, linear branched and cyclic alcohols in aqueous sodium dodecyl sulfate micelles at 298 °K *J. Colloid Interface Sci.* 103(1985) 1
- CALHORDA, M. J., DIAS, A. R., MARTHINO SIMÕES, J. A., TEIXEIRA, C. (Superior Tech. Ctr. Quim. Estrutural Complexo 1, P-1096, Lisboa, Portugal): Enthalpies of formation of complexes $[M(\eta-C_5H_5)_2(SR)_2]$ M=Mo, W or Ti, R=C₃H₇, C₄H₉ or C₆H₅) metal-sulphur bond enthalpies. *J. Chem. Soc. Dalton Trans.* 12(1984) 2659
- CAMPANELLI, A. R., IMPERATORI, P. (Univ. Rome, Dipartimento Chim. I-00185 Rome, Italy): Study of the vaporization process of sodium and rubidium deoxycholate lyophilizates. *Thermochim. Acta* 81(1984) 385
- CAO, Z. Y., FRITSCH, H. V., BERGMANN, H. W. (Cent. S Inst. Min. and Met. Changsha, Peoples R China): Investigation of kinetic processes using peak analysis. *Thermochim. Acta* 83(1985) 23
- CARLSON, F. M., FRIPP, A. L., CROUCH, R. K. (Sci. Concepts Inc. POB 5076, Potsdam, NY 13676, USA): Thermal convection during bridgman crystal growth. *J. Cryst. Growth* 68(1984) 747
- CARTER, M. A., GLASSON, D. R., JAYAWEEERA, S. A. A. (Plymouth Politech. Dept. Environm. Sci. John Graymore Chem. Labs. Plymouth PL4 8AA, Devon, England): Surface area development of 3 coxes in relation to the zinc-lead blast furnace. *Thermochim. Acta* 82(1984) 111
- CASTRO, A., PICO, C., JEREZ, A., VEIGA, M. L. (Univ. Complutense Madrid, Fac. Ciencias Quim. Dept. Quim. Inorgan. Madrid, Spain): The thermal behaviour of solid phases in the Te-Se-O₂ system. *Thermochim. Acta* 82(1984) 381
- CAZZANELLI, E., FRECH, R. (Univ. Trento, Dipartimento Fis. 1-38050 Povo, Italy): Temperature dependent Raman spectra of monoclinic and cubic Li₂SO₄. *J. Chem. Phys.* 81(1984) 4729
- CÉRANIČ, T. S., RODAK, V. M., LUKIĆ, T. M., NIKOLIĆ, D. (Univ. Belgrade, Fac. Sci. Inst. Phys. Chem. POB 550 Yu 11001 Belgrade, Yugoslavia): Properties of Na,K exchanged forms of NH₄-Y zeolite thermally treated at 873K. *Zeolites* 5 (1985) 42
- CERNIA, E., D'ILARO, L. (Assoreni, Rome, Italy): Thermoplastic elastomers: Structural and morphological aspects of ether-esteramide copolymers. *J. Polym. Sci. Polym. Phys. Ed.* 23(1985) 49
- CHAKRABORTY, S. K., LAHIRI, S. C. (Kalyani Univ. Dept. Chem. Kalyani 741235, W Bengal, India): Enthalpy and entropy of transfer of hydrogen ion from water to mixed solvents. *J. Thermal Anal.* 29(1984) 815
- CHANDNANI, P. P., CHAKMA, A., LIELMEZS, J. (Univ. British Columbia Dept. Engr. Vancouver, BC Canada V6T 1W5): Comparison of Benedict-Webb-Rubin and BACK equations of state for use in P-V-T calculations. *Thermochim. Acta* 82 (1984) 263
- CHEN, R., MATHUR, V. K., RHODES, J. F., BROWN, M. D., MCKEEVER, S. W., BULL, R. K. (Tel Aviv Univ. Dept. Phys. and Astron IL-69978 Tel Aviv, Israel): Thermoluminescence governed by simultaneous thermal simulation of electrons and holes. *Phys. Status Solidi B-Basic Re.* 126 (1984) 361
- CHILLA, E., SCHILLER, W. (Tech. Univ. Dresden, Sect. Phys. Wissensch. Bereich Theoret. Phys. DDR-8027 Dresden, Ger. Dem. Rep.): The influence of elektron-phonon interaction on the thermoelectric power at high temperatures. *Phys. Status Solidi B-Basic Re.* 126(1984) K91
- CHIODELLI, G., CAMPARIVIGANO, G., FLOR, G., MAGISTRIS, A., VILLA, M. (Univ. Pavia, Dipartimento Chim. Fis. CNR.

- Ctr. Termodinam. Elettrochim. 1-27100, Pavia, Italy): Vitreous phases of the Ag_2O : B_2O_3 : P_2O_5 system. *J. Thermal Anal.* 29(1984) 673
- CHOU, K. S., SOONG, C. S., (Natl. Tsing Hua Univ. Dept. Chem. Engr. Hsinchu, Taiwan): Kinetics of the multistage dehydration of aluminium sulfate hydrate. *Thermochim. Acta* 81(1984) 305
- CHRISTENSEN, J. J., ZEBOLSKY, D. M., IZATT, R. M. (Brigham Young Univ. Inst. Thermochem. Dept. Chem. Engr. Provo, UT, 84602, USA): The excess enthalpies of (carbon dioxide+toluene) at 470.15 and 573.15K from to 12,67 MPa *J. Chem. Thermodyn.* 17(1985) 1
- CHUMACHENKO, N. N., MAKSIMOVSKAYA, R. I., TARASOVA, D. V., YURCHENKO, E. N., YAROSLAVTSEVA, I. V. (Acad. Sci. USSR. Inst. Catalysis Novosibirsk, USSR): Synthesis and properties of catalysts obtained from silicon molybdenum vanadium heteropoly acids. 1. Thermal decomposition of solid and supported silicon molybdenum vanadium heteropoly acids. *Kinet. Catal. Engl. Tr.* 25(1984) 553
- CLAUDY, P., LETOFFE, J. M., COUNIOUX, J. J., COHENADAD, R. (Inst. Natl. Sci. Appl. Lyon, CNRS; Thermochim. Minérale Lab. 116, F-69621 Villeurbanne, France): Study by means of ACD of the non-equilibrium region of the systems $\text{XLiCl}(1-x)\text{H}_2\text{O}$ (O less than X-less-thano, 1,8) *J. Thermal Anal.* 29(1984) 423
- CLOE, P. L., SELLARS, A., TATLOW, J. C., FIELDING, H. C., WHITTAKER, G. (Univ. Birmingham, Dept. Chem. POB 363 Birmingham B15 2TT W Midlands, England): Polyfluoro-1,2-epoxy alkanes and cycloalkanes. Part IV. Thermal reactions of the epoxides of the pentamer and hexamer oligomers of tetrafluoroethane. *J. Fluorine Chem.* 27(1985) 71
- COINTOT, A., DUFOUR, M., JOLY, G. (Lab. Chim. Phys. 40-Ave Recteur Pineau, F-86022 Poitiers, France): Etude de l'adsorption du n-hexane dans une zéolithe H-ZSM5; utilisation d'un modèle cinétique non isotherme. *Thermochim. Acta* 81(1984) 197
- COLOMINA, M., JIMENEZ, P., ROUX, M. V., TURRION, C. (Univ. Bologna, Fac. Ingn. Ist. Chim. 1-40136 Bologna, Italy): Thermochemical properties of benzoic acid derivatives. XI. Vapour pressures and enthalpies of sublimation and formation of the six dimethylbenzoic acids. *J. Chem. Thermodyn.* 16(1984) 1121
- COMERT, H., PRATT, J. N. (Univ. Strathelyde, Dept. Mat. Glasgow G1 1XW, Scotland): The standard molar Gibbs free energy of formation of NiO from high-temperature e.m.f. measurements. *J. Chem. Thermodyn.* 16(1984) 1145
- CONLIN, R. T., HUFFAKER, H. B., KWAK, Y. W. (N Texas State Univ. Dept. Chem. Denton TX, 76203, USA): Synthesis and thermal ring expansion of 2-methylene, 1,1-dimethylsilacyclobutane. *J. Amer. Chem. Soc.* 107(1985) 731
- CONOLLY, J. F., KANDALIC, G. A. (Stand. Oil Corp. Res. Dept. POB 400, Naperville, IL 60566, USA): Thermodynamic properties of dilute solutions of carbon monoxide in a hydrocarbon. *J. Chem. Thermodyn.* 16(1984) 1129
- CORDFUNKE, E. H. P., OUWELTJES, W., PRINS, G. (Netherlands Energy Res. FDN, ECN, Petten, Netherlands): Standard enthalpies of formation of uranium compounds. XI. Lithium uranates(VI). *J. Chem. Thermodyn.* 17(1985) 19
- CORNELISSEN, M. C. M., HOOGENDOORN, C. J. (Delft. Univ. Technol. Dept. Appl. Phys. Heat Transfer Sect. 2600 GA Delft, Netherlands): Thermal stability of superconducting magnets: static criteria. *Cryogenics* 24(1984) 669
- CORNELISSON, M. C. M., HOOGENDORN, C. J. (Hoogovens GRP BV. Res. and Bedrijfs Lab. VMS 4D11 Gaasterduin, Postbus 10000, 1970 CA Ijmuiden, Netherlands): Thermal stability of superconducting magnets dynamic criteria. *Cryogenics* 25(1985) 3

- COSTA, G. A., FRANCESCHI, E. A., TAWAN-SI, A. (Univ. Genova, Ist. Chim. Fis. Genova, Italy): Study of structural transformations of equiatomic compounds of rare earth metals with copper. *J. Thermal Anal.* 29(1984) 665
- CRINE, J. P. (Hydro Quebec Inst. Res. CP-1000, Varennes, Quebec Canada, JOL 2PO): A thermodynamic model for the composition law and its physical significance for polymers. *J. Macromol. Sci. Phys.* B23(1984) 201
- CRISTOL, B., HOURIEZ, J., BALESDENT, D. (Inst. Natl. Polytech. Lorraine, Ecole Natl. Super Ind. Chim. Thermodynam. Chim. and Appl. Lab. F-54042 Nancy, France): Standard molar enthalpies of formation of $KCdCl_3$ and K_4CdCl_6 by high-temperature drop calorimetry. *J. Chem. Thermodyn.* 16(1984) 1191
- CUBICCIOTTI, D. (Elect. Power Res. Inst. Div. Nucl. Power, Palo Alto CA, 94303, USA): Thermodynamics of vaporization of fission products and materials under severe reactor accident conditions. *Pure Appl. Chem.* 57(1984) 1
- CUTTLER, A. H., GLASSON, D. R., MAN, V. (Plymouth Polytech, Dept. Environm. Sci. John Graymore Chem. Labs Plymouth PL 4 8AA, Devon England): Vacuum balance and related studies of green and red rusts. *Thermochim. Acta* 82(1984) 231
- CYPRES, R., GHODSI, M., FERON, D. (Univ. Libre Bruxelles, Serv. Chim. Ind. and Chim. Solides, B-1050 Brussels, Belgium): Influence of added alkaline salts on hydrogenation kinetics of coal. *Thermochim. Acta* 81(1984) 105
- CZARNOWKI, J., SCHUMACHER, I. J. (Inst. Invest. Fis. Quim. Teor. and Aplicadas Casilla Correo 16 Sucursal 4, RA-1900 La Plata, Buenos Aires, Argentina): The thermal decomposition of fluoroperoxytrifluoromethane CF_3OOF . *An. Assoc. Quim. Argent.* 72(1984) 517
- DALGLEISH, B. J., JOHNSON, S. M., EVANS, A. G. (Univ. Calif. Berkeley Lawrence, Berkeley Lab. Berkeley, CA 94720, USA): High-temperature failure of polycrystalline alumina. I. Crack nucleation. *J. Amer. Ceram. Soc.* 67(1984) 741
- DA SILVA, M. D. M. C. R., RIBEIRO DA SILVA, M. A. V., PILCHER, G. (Univ. Porto, Fac. Ciencias. Dept. Quim. P 4000 Porto, Portugal): Enthalpies of combustion of 1,2-dihydroxybenzene and of six alkylsubstituted 1,2-dihydroxybenzenes. *J. Chem. Thermodyn.* 16(1984) 1149
- DATTA, R. N., DAS, M. M., BASU, D. K., CHAUDHURI, A. K. (Indian Assoc. Cultivat. Sci. Dept. Macromolec. Calcutta 700032, W, Bengal, India): Thermal and age-resistance properties of NR gum vulcanizates in EV systems. *Rubber Chem. Technol.* 57(1984) 879
- DAVIS, M. I. (Univ. Texas Dept. Chem. El Paso TX 79968, USA): Segmented composition model analysis of compressibility data for some non-electrolyte aqueous systems. *Thermochim. Acta* 81(1984) 157
- DAY, M., WILES, D. M., (Natl. Res. Council Canada, Div. Chem. Ottawa, Ontario Canada K1A 0R6): Influence of temperature and environment on the thermal decomposition of poly(ethyleneterephthalate) fibres with and without the flame retardant tris/2,3-dibromopropyl phosphate. *J. Anal. Appl. Pyrol.* 7/1984/65
- DEB, P., CHATURVEDI, M. C. (USN, Postgrad. Sch. Mat. Sci. GRP, Monterey, CA, 93940, USA): Thermomechanical treatment of AISI 1015 steel. *Mater. Sci. Eng.* 68 (1985) 207
- DECKER, U. P. (TH Carl Schorlenamer Leuna Merseburg Sekt. Chem. Otto Nuschke Str. DDR. 4200 Merseburg, Ger. Dem. Rep.): Thermodynamic excess properties in a system of trifluorotoluene-dimethylformamide in isothermic vapor pressure measurements. *Z. Phys. Chem-Leipzig*-265(1984) 1114
- DEI, L., GUARINI, G. G. T., PICCINI, S. (Univ. Florence, Dept. Chem. 1-50121 Florence, Italy): Dehydration rehydration phenomena of surface layers of crystal hydrates. Thermal aspects. *J. Therm. Anal.* 29(1984) 755

- DELGADO, R., FRAUSTO DA SILVA, J. J. R., CANDIDA, M., VAZ, T. A. (Inst. Super Tech. Ctr. Quim Estrutural Complexo 1, Lisbon 1 Portugal): The thermodynamics of complex formation of cyclic tetra-aza-tetraacetic acids. *Inorg. Chim. Acta-Artic Lett.* 90(1984) 185
- DEKORANYI, A., WILLIAMS, S. G. (British Gas Corp. London, Res. Stn. Michael RD, London SW6 2 AD, England): Structural changes in coal chars during gasification. *Thermochim. Acta* 82(1984) 103
- DISHON, G., SCHIEBER, M., BENDOR, L. (AVX Israel Ltd. POB 3108, IL-91030 Jerusalem, Israel): Thermodynamics of the evaporation of solid HgI_2 . *J. Cryst. Growth* 69 (1984) 47
- DNEPROVSKII, A. S., IZVROV, A. L. (AA Zhdanov State Univ. Leningrad 8-164, USSR): Temperature dependence of reaction parameters in free-radical replacement reactions. *Zh. Org. Khim. SSSR* 20(1984) 2479
- EASTEAL, A. J., WOOLF, L. A. (Australian Natl. Univ. Res. Sch. Phys. Sci. Atom and Molec. Phys. Labs. Canberra, Act. 2601, Australia): (p, Vm, T, x) measurements for $\{(1-x)H_2O+xCH_3OH\}$ in the range 278 to 323 K and 0,1 to 280 MPa. I. Experimental results, isothermal compressibilities, thermal expansivities and partial molar volumes. *J. Chem. Thermodyn.* 17(1985) 49
- EASTEAL, A. J., WOOLF, L. A. (Australian Natl. Univ. Res. Sch. Phys. Sci. Atom and Molec. Phys. Labs. Canberra, Act. 2601, Australia): (p, Vm, T, x) measurements for $\{(1-x)H_2O+xCH_3OH\}$ in the range 278 to 323K and 0,1 to 280 MPa II. Thermodynamic excess properties. *J. Chem. Thermodyn.* 17(1985) 69
- EDWARDS, S. F. (Univ. Cambridge Cavendish Lab. Madingley RD. Cambridge CB3 0ME England): Dynamics of polymers in solution and melts. *Polymer* 26(1985) 163
- EDSGAARD, H., CARLSEN, L., (Riso Natl. Lab. Dept. Chem. DK-4000 Roskilde, Denmark): Techniques in gas-phase termolyses. Part 5. Continuous-flow inlet systems for low pressure. Curie-point pyrolysis. Introduction of pulse-pyrolysis. *J. Anal. Appl. Pyrol.* 7(1984) 1
- EL-DIB, A. M., HASSAN, H. F. (Al Azhar Univ. Dept. Phys. Cairo, Egypt): Temperature dependence of the electronic energy bands of $NaNO_2$ crystal from 20 to 245 °C. *Phys. Status Solidi B-Basic. Re.* 126 (1984) 587
- EMONS, H. H., NAUMANN, R., POHL, T., VOIGT, H. (Berg. Akad. Freiberg, Sect. Chem. DDR-9200 Freiberg, Ger. Dem. Rep.): Thermoanalytical investigation on the decomposition of carnallite. *J. Thermal Anal.* 29(1984) 571
- EMONS, H. H., WOLF, G., KROPP, C. (Berg. Akad. Freiberg, Sect. Chem. DDR-9200 Freiberg, Ger. Dem. Rep.): Enthalpies of crystallization of halogenides. Part 1. Investigations of enthalpies of crystallization of salts at 298.15K from the whole enthalpy of dissolution. *Thermochim. Acta* 81 (1984) 59
- ENGEL, W., EISENREICH, N. (Fraunhoferinst Treib and Explosionsstoffe, D-7507 Berghausen, Fed. Rep. Ger.): Thermal analysis of dry ammonium nitrate by energy dispersive X-ray diffraction between 70 and 150 degrees C. *Thermochim. Acta* 83 (1985) 161
- ERIKSSON, T. S., LUSHIKU, E. M., GRANGVIST, C. G. (Chalmers Univ. Technol. Dept. Phys., S 41296 Gothenburg, Sweden): Materials for radiative cooling to low temperature. *Solar Energ. Mater* 11(1984) 149
- ERSHOV, B. G., ISAKOVA, O. V. (Acad. Sci. USSR, Inst. Phys. Chem. Moscow V-71, USSR): Formation and thermal transformations of free radicals in gamma radiation of cellulose. *Bul. Acad. Sci. USSR D Chem Sci.* 33 (1984) 1171
- ESCOUBES, M., EYRAUD, C., ROBENS, E. (Univ. Claude Bernard Lyon 1 BP 6010 F-69604 Villeurbanne, France): Vacuum microbalances and thermogravimetric ap-

- paratus. 1. Commercially available instruments. *Thermochim. Acta* 82 (1984) 15
- ESCOUBES, M., PINERI, M., ROBENS, E. (Univ. Claude Bernard Lyon 1 BP 6010 F-69604 Villeurbanne, France): Application of coupled thermal analysis techniques to thermodynamic studies of water interactions with a compressible ionic polymer matrix. *Thermochim. Acta* 82(1984) 149
- EVANS, J. P. (NB Ctr. Basic Stand. Div. Temp. and Pressure Gaithersburg MD, 20899, USA): Evaluation of some high-temperature platinum resistance thermometers. *J. Res. Nat. Bur. Stand.* 89(1984) 349
- FAIRBANKS, C. J., LEE, H. L., HASSELMAN, D. P. H. (Virginia Polytech. Inst. and State Univ. Dept. Mat. Engr. Blacksburg, VA 24061, USA): Effect of crystallites on thermal shock resistance of cordierite glass-ceramics. *J. Amer. Ceram. Soc.* 67 (1984) C-236
- FEJES, P., HANNUS, I., KIRICSI, I., PFEIFFER, H., FREUDE, D., OEHME, W. (Attila József Univ. Dept. Appl. Chem. H-6701 Szeged, Hungary): Thermal stability of hydroxy groups in dealuminated mordenites. *Zeolites* 5(1985) 45
- FERID, M., KHIR-ARIGUIB, N., TRABELSI, M. (Inst. Natl. Rech. Sci. and Tech. Ecole Normale Super Ctr. Chim. Appl. Phys. Chim. Minerale Lab. Tunis, Tunisia): Etude du systeme $TiPO_3$ - LaP_3O_9 . *Thermochim. Acta* 81(1984) 175
- FERMEGLIA, M., KIKIC, I. (Univ. Trieste, Inst. Appl. Chem.-1-34127 Trieste, Italy): Excess enthalpy calculations by means of equations of state. *J. Thermal Anal.* 29(1984) 687
- FINKELSHTEIN, A. V.: 3rd law of thermodynamics discussion. *Zh. Fiz. Khim. SSSR* 58(1984) 2984
- FLANAGAN, T. B., MAJOROWSKI, S., CLEWELY, J. D., PARK, C. N. (Univ. Vermont, Dept. Chem. Burlington, VT 05405, USA): The thermodynamic characterization of the $LaCO_3$ -H system. *J. Less-Common Metals* 103(1984) 93
- FLEMMING, N. J., LOPATA, V. J., SANIPELI, B. L., TAYLOR, P. (Shell Canada Ltd. Calgary Res. Ctr. POB 2506, Calgary, Alberta Canada T2P 256): Thermal decomposition of basic lead carbonates: a comparison of hydrocerussite and plumbonacrite. *Thermochim. Acta* 81(1984) 1
- FLETCHER, D. P., KLEIN, J. (Adv. Polymer Syst. 3696 Haven Ave Redwood City, CA 94063, USA): Temperature dependence of the diffusion coefficient of entangled linear and star-branched polymers. *Polym. Commun.* 26(1985) 2
- FLORENTSEV, M. M., MOSIN, A. M., KORSHUNOV, A. I., NOSENKO, V. G. (Moscow Organoelement CPOLS Chem. and Technol. Res. Inst. Moscow, USSR): Thermodynamics and kinetics of process for obtaining vinyltrichlorosilane by thermal condensation. *J. Appl. Chem. Engl. Tr.* 57(1984) 343
- FLORY, P. J., MATHESON, R. R. Jr. (Stanford Univ. Dept. Chem. Stanford, CA94305, USA): Statistical thermodynamics of semirigid macromolecules: Chains with interconvertible rodlike and random-coil sequences in equilibrium. *J. Phys. Chem.* 88(1984) 6606
- FRAGA, A. N., WILLIAMS, R. J. J. (Natl. Inst. Ind. Technol. Inti. Fish. Technol. Res. Ctr. Citep, Mt Alvear 1168 RA-7600 Mar Del Plata, Argentina): Thermal properties of gelatin films. *Polymer* 26(1985) 113
- FRIDKIN, V. M., MAGOMADOV, R. M. (Chechenko Ingush Univ., Grozny, USSR): Temperature dependence and photovoltaic current kinetics in cubic ZnS crystals. *Fiz. Tverd. Tela SSSR* 26(1984) 3449
- FRINK, M. E., FORD, P. C., SKIBSTED, L. H. (Univ. Calif. Santa Barbara, Dept. Chem. Santa Barbara, CA 93106, USA): Low temperature luminescence properties of mono- and dinuclear tetraamine complexes of rhodium(III) and iridium(III). *Acta Chem. Scand. Ser. A* 38(1984) 795
- FROLOVA, G. I., KOZEEVA, L. I., PAUKOV, I. E. (Acad. Sci. USSR, Inst. Inorgan. Chem.

- Novosibirsk, USSR): Thermodynamic properties of $\text{KYB}(\text{MoO}_4)_2$ in the 4.9-313K range. *Zh. Fiz. Khim. SSSR* 58(1984) 2629
- FROLOVA, G. I., MELNIKOVA, V. M., PANKOV, I. E. (Acad. Sci. USSR, Inst. Inorgan. Chem. Novosibirsk, USSR): Thermodynamic properties $\text{HF}(\text{SO}_4)_2 \cdot 4\text{H}_2\text{O}$ in the 5-310K range. *Zh. Fiz. Khim. SSSR* 58(1984) 2581
- FRÖHLICH, D., WEBER, H. J.; WILLIE, R., FRANCINI, R. (Univ. Dortmund, Inst. Phys. D-4600 Dortmund 50, Fed. Rep. Ger.): Temperature dependence of the exciton lineshape of GeO_2 . *Phys. Status Solidi B-Basic Re.* 126(1984) 305
- FUBINI, B., GIAMELLO, E. (Univ. Turin, Fac. Farm. Inst. Chim. Gen. and Inorgan. 1-10125, Turin, Italy): Heats and kinetics of oxidation of small copper particles in copper-containing catalysts. *J. Thermal Anal.* 29(1984) 655
- GABEL, P., CAMMENGA, H. K. (Tech. Univ. Brunswick Inst. Phys. and Theoret. Chem. Hans Sommer Str. D-3300 Brunswick, Fed. Rep. Ger.): Optimal adsorbents for the extraction of food ingredients. Search and characterization. *Thermochim. Acta* 83 (1985) 89
- GALLAGHER, P. K. (AT and Bell Labs. Murray Hill N. J. 07974, USA): Temperature calibration of a mass spectrographic evolved gas analysis system. *Thermochim. Acta* 82(1984) 325
- GALVEZ, J., PALAZON, J., LOPEZ, G., GARCIA, G. (Univ. Murcia, Dept. Inorgan. Chem. Murcia, Spain): Thermal behaviour of some nickel(II)-morpholine complexes. *J. Thermal Anal.* 29(1984) 465
- GANGADEVI, T., RAO, M. S., KUTTY, T. R. N. (Indian Inst. Sci. Dept. Inorgan. and Phys. Chem. Bangalore 566012, Karnataka, India): Thermal decomposition of lead zincanyl oxalate hexahydrate. *Indian J. Chem. Sect. A* 23(1984) 946
- GARCIAORICAIN, J., CAMPS, A. F. (Univ. Barcelona, Fac. Pharm. Dept. Inorgan. Chem. Barcelona, Spain): Thermal decompositions of some transition metal salicylates. *J. Thermal Anal.* 29(1984) 793
- GAST, T., JAKOBS, H., LUCE, G. (Tech. Univ. Berlin, Inst. Mess. and Regelungstech. Budapest Str. 46-50 D-1000 Berlin 30. Fed. Rep. Ger.): Transmission of data-values from a magnetically suspended sample. *Thermochim. Acta* 82(1984) 1
- GERARD, N., BAYANE, C., ELHAMMIOVI, M. (Univ. Dijon, Reactivité Solides Lab. F-21004, Dijon, France): Study of hydride forming system by thermogravimetry role of the sample mass in exothermic kinetics. *Thermochim. Acta* 82(1984) 171
- GHOSH, B. P., NAG, K. (Indian Assoc. Cultivat. Sci. Dept. Inorgan. Chem. Calcutta 700032, W Bengal, India): Differential scanning calorimetric studies of several compounds showing order-disorder transition. *J. Thermal Anal.* 29(1984) 433
- GINSBURG, R., SUSKO, J. R. (IBM Corp. Div. Syst. Technol. Endicott NY, 13760, USA): High-temperature stability of a polyimide film. *IBM J. Res. Develop.* 28(1984) 735
- GINZBURG, L. I., KHOKHLOV, V. A., GANICHEVA, S. I., KRIVCHENKO, E. I., ALEKSANDROV, V. A., RUPYSHEV, V. G. (Plastpolimer Sci. and Ind. Assoc. Okhta USSR): Kinetics of thermally initiated copolymerization of styrene with methyl methacrylate and mathematical model of the process. *J. Appl. Chem. Engl. Tr.* 57(1984) 1221
- GITTERMAN, M. (Bar Ilan Univ. Dept. Phys. IL-52100 Ramat Gan, Israel): Thermodynamics of critical points in two component, three-phase fluids. *J. Phys. Chem.* 88 (1984) 6178
- GIUSTI, J., GUARINI, G. G. T., MENABUE, L., PELLACANI, G. C. (Univ. Florence, Dipartimento Chim. 1-50121 Florence, Italy): Thermal behaviour of [N(2-ammonium-ethyl) piperazinium] pentachloro-urate(II) dihydrate. *J. Thermal Anal.* 29 (1984) 639

- GLASSON, D. R. (Plymouth Polytech. Dept. Environm. Sci. John Greymore Chem. Labs. Plymouth PL4 8AA, Devon, England): Vacuum balance studies of phosphate-bonded oxide ceramics. *Thermochim. Acta* 82(1984) 201
- GOEL, S. P., MEHROTRA, P. N. (Univ. Roorkee, Dept. Chem. Roorkee 247667, Uttar, Pradesh, India): Pyrolysis of strontium oxomolybdenum(IV) oxalate. *Thermochim. Acta* 81(1984) 363
- GOLDSHTEIN, A. D., GURVICH, L. V., MEDVEDEV, V. A. (Acad. Sci. USSR, Inst. High Temp. Moscow V-71, USSR): Methods of thermochemical data correlations using electronic computers. *Zh. Fiz. Khim. SSSR* 58(1984) 2641
- GOLONKA, G., KACZALA, P., LAMY, P., SIGURET, D. (Rhone Poulenc Rech. 24 Ave Jean Jaures F-69150 Decines, France): Determination of the purity of chemical substances by DSC. Utilization of the thermodynamic equation of Schroder-Vanlaar without simplifications. *J. Thermal Anal.* 29(1984) 807
- GOPALAKRISHNAN, R., VISWANATHAN, B. (Indian Inst. Technol. Dept. Cham. Madras 600036, Tamil Nadu, India): Temperature-programmed desorption and infrared studies on the activation of carbon monoxide on cobalt surfaces. *J. Colloid Interface Sci.* 102(1984) 370
- GORNOSTAEV, L. M., LEVDANSKII, V. A. (Krasnoyarsk Teachers Inst. Krasnoyarsk USSR): Thermal transformations of 1-azido-2-arylsulfonylanthraquinones-peculiarities of recyclizations of some 3-arylanthra [1,9-CD] 6-isoxazolons. *Zh. Org. Khim. SSSR* 20(1984) 2452
- GOSPODINOV, G. G. (Higher Inst. Chem. Technol. Dept. Inorgan. Chem. Bourgas, Bulgaria): Interactions in three-component system $\text{In}_2\text{O}_3 - \text{SeO}_2 - \text{H}_2\text{O}$ at 100°C . *Thermochim. Acta* 82(1984) 367
- GOSPODINOV, G. G. (Higher Inst. Chem. Technol. Dept. Inorgan. Chem. Bourgas, Bulgaria): Solubility isotherm and some properties of the phases of the $\text{Ga}_2\text{O}_3 - \text{SeO}_2 - \text{H}_2\text{O}$ system. *Thermochim. Acta* 82(1984) 375
- GOSPODINOV, G. G., BOGDANOV, B. G. (Higher Inst. Chem. Technol. Dept. Inorgan. Chem. BU-8010 Bourgas, Bulgaria): Determination of the heats of formation of some basic metal tellurites and pyrotellurites. *Thermochim. Acta* 81(1984) 349
- GOTO, A., TAKEMOTO, M., ENDO, F. (Shizuoka Coll. Pharm. 2-2-1 Oshika, Shizuoka 422, Japan): A thermodynamic study on micellization of nonionic surfactant in water and in water-ethanol mixture by gel filtration. *Bull. Chem. Soc. Jpn.* 58(1985) 247
- GRASSIE, N., PERDOMO MENDOZA, G. A. (Univ. Glasgow, Dept. Chem. Glasgow G 12 800, Scotland): Thermal degradation of polyether-urethanes: Part 2. Influence of the fire retardant, ammonium polyphosphate on the thermal degradation of poly(ethylene glycol). *Polym. Degrad. Stabil.* 10(1985) 43
- GRAVELLE, P. C. (CNRS, Inst. Rech. Catalyse 2 Ave Albert Einstein, F-69626 Villeurbanne, France): Thermokinetic studies in adsorption and heterogeneous catalysis. *Thermochim. Acta* 83(1985) 117
- GREBENNIKOV, S. F. (SM Kirov Text and Light Ind. Inst. Dept. Phys. Colloid and Analyt. Chem. Leningrad, USSR): Thermodynamic analysis of equations of vapor sorption isotherms. *Izv. Vyssh. Uch. Zav. Khim. Khim. T* 27(1984) 1185
- GUARIDO, C. G., SUAREZ, M., GARCIA, J. R., LLAVONE, R., RODRIGUEZ, J. (Fac. Sci. Avignon, Geol. Lab. 33 Rue Louis Pasteur, F-84000 Avignon, France): Thermodynamic treatment and calorimetric study of H^+/Li^+ ion exchange on α -titanium phosphate. *J. Chem. Thermodyn.* 17(1985) 63

- GUGEL, E. (Cremer Gruppe CFL Forschungsinst. POB 1380, D-8633 Rodental, Fed. Rep. Ger.): The significance and chances of non-metal-anorganic substances. *Thermochim. Acta* 83(1985) 1
- HAAV, A. A., HALLER, K. E., TEHVER, I. J., REBANE, L. A. (Acad. Sci. E.S.S.S.R., Inst. Phys. Tartu, E.S.S.S.R.): Low-temperature resonance Raman excitation profiles of the MnO_4^- -ion in $KClO_4$ crystals. *Fiz. Tverd. Tela SSSR* 26(1984) 3280
- HADENFELDT, C., SCHULZ, P. (Univ. Kiel Inst. Anorgan. Chem. Olshausen str. 40 D-2300 Kiel 1. Fed. Rep. Ger.): Preparation, crystal structure and temperature dependence of the homogeneity range of the phase $Ca_{2-x}As_{1-x}Br_{1+x}$ and thermal behaviour of Ca_3AsBr_3 . *Z. Anorg. Allg. Chem.* 518(1984) 77
- HADRICH, W. (Netzsch Greatbau GMBH, D-8672 Selb Bayern Fed. Rep. Ger.): Anomalies in the thermal expansion of ferromagnetic metals and alloys. *Thermochim. Acta* 83(1985) 17
- HAKL, J., (Sandoz Ltd. CH-4002, Basel, Switzerland): Over-adiabatic calorimetry (OAC). *Thermochim. Acta* 81(1984) 319
- HANNA, S. B., FARAG, L. M., MANSOUR, N. A. L. (Natl. Res. Ctr. Refractories Lab. Cairo, Egypt): Pyrolysis and combustion of treated and untreated rice hulls. *Thermochim. Acta* 81(1984) 77
- HAUG, A. (Empfing 15, D-8220 Traunstein Fed. Rep. Ger.): Temperature dependence of auger recombination in gallium antimonide. *J. Phys.-C-Solid State Phys.* 17 (1984) 6191
- HAUSSUHL, S., BOHATY, L. (Univ. Köln, Inst. Kristallogr. Zulpicher Str. 49, D-5000 Köln, 1. Fed. Rep. Ger.): Pyroelectric, dielectric, thermal, piezoelectric, electro-optical, elastic and thermoelastic properties of hexagonal guanidium iodide $C(NH_2)_3$. *Z. Kristallogr.* 167(1984) 311
- HENNIG, H., BENEDIX, M., BENEDIX, R., THOMAS, Ph. (Karl Marx Univ. Dept. Sect. Chem. Liebigstr. 18, DDR-7010 Leipzig, Ger. Dem. Rep.): Thermal investigations of iron(III) mixed ligand complexes with oxalate and aromatic α -diimines. *Z. Anorg. Allg. Chem.* 519(1984) 175
- HERMAN, L., MORALES, J., ORTEGA, A., TIRADO, J. L. (Univ. Cordoba, Fac. Ciencias, Dept. Quim. Inorgan. Cordoba, Spain): Kinetic study of the thermal decomposition of cobalt(III) oxyhydroxide. 1. Isothermal kinetic data. *J. Thermal Anal.* 29(1984) 479
- HERNAN, L., MORALES, J., ORTEGA, A., TIRADO, J. L. (Univ. Cordoba, Fac. Ciencias, Dept. Quim. Inorgan. Cordoba, Spain): Kinetic study of the thermal decomposition of cobalt(III) oxyhydroxide. 2. Thermogravimetric, textural and structural data. *J. Thermal Anal.* 29(1984) 491
- HERNANDEZ, M. J., ULIBARRI, M. A., RENDON, J. L., SERNA, C. J. (Univ. Cordoba, Fac. Ciencias Dept. Quim. Inorgan. Cordoba, Spain): Thermal stability of Ni,Al double hydroxides with various interlayer anions. *Thermochim. Acta* 81(1984) 311
- HOFFMANN, J., HUNGER, B., STRELLER, V., STOCK, Th., DOMBROWSKI, D., BARTH, A. (Karl Marx Univ. Dept. Chem. DDR-7010 Leipzig, Ger. Dem. Rep.): Thermal activation of ammonium forms of Y zeolites. I.T.p.d., i.r., and catalytic investigations of the deammonization of NH_4 , Na-Y zeolites. *Zeolites* 5(1985) 31
- HOLZMANN, G., FRENKING, G., STEINER, B. (Free Univ. Berlin, Inst. Organ. Chem. Taku Str. 3, D-1000 Berlin 33, Fed. Rep. Ger.): Thermal and electronic impact-induced decarbonylation of tropones: a comparison of neutral and radical cationic pericyclic reaction mechanism. *J. Chem. Soc. Perkin Trans. II* 12(1984) 1943
- HONDERS, A., KINDEREN, J. M., van HEEREN, A. H., WIT, J. H. W., BROERS, G. H. J. (State Univ. Utrecht, Dept. Inorgan

- Chem. 3522 AS. Utrecht, Netherlands): The thermodynamic and thermoelectric properties of Li_xTiS_2 and Li_xCeO_2 . *Solid. State Ionics* 14(1983) 205
- HONG, S. I. (Univ. Penn. Dept. Mat. Sci. and Eng. Philadelphia, PA 19104, USA): Temperature dependence of creep activation energies of Al-3,2% Mg. *Scr. Metall.* 18(1984) 1351
- HÜBER, G., PLOUMBIDIS, D. (Univ. Basel, Inst. Phys. Chem. CH-4056 Basel, Switzerland): Electrical resistivity and NMR investigations of V-Co system at high temperatures. *Phys. Status Solidi B-Basic Re.* 126(1984) K101
- HUNGER, B., HOFFMANN, J. (Karl Marx Univ. Dept. Chem. DDR-7010 Leipzig, Ger. Dem. Rep.): Study of complex desorption processes on porous catalysts by mean of temperature-programmed desorption (TPD) with non-linear temperature programmes. *J. Thermal Anal.* 29(1984) 801
- IBRAHIM, A. M., THOMPSON, D. A. (McMaster Univ. Dept. Engr. Phys. Hamilton, Ontario, Canada L83 4M1): Thermoelectric properties of BiSb alloys. *Mat. Chem. Phys.* 12(1985) 29
- INOUE, A., MASUMOTO, T., CHEN, H. S. (Tohoku Univ. Iron Steel and Other Met. Res. Inst. Sendai): Enthalpy relaxation behaviour of $(\text{Fe}, \text{Co}, \text{Ni})_{7,5}\text{Si}_{1,0}\text{B}_{1,5}$ amorphous alloys upon low temperature annealing. *J. Mater Sci.* 19(1984) 3935
- IRWIN, D. J. G., JOHNSON, R., PALEPU, R. (Univ. Coll. Cape Breton, Dept. Math. Nat. Sci. Sydney, NS Canada B1P 6L2): Thermodynamic and transport properties of binary liquid acid-base mixtures. Part 1. *Thermochem. Acta* 82(1984) 277
- JAHAN, M. S., COOKE, W. (Memphis State Univ. Dept. Phys. Memphis TN 38152, USA): Thermal evolution of low-temperature manganese centers in X-irradiated CaF_2 :Mn. *Phys. Status Solidi B-Basic Re.* 126(1984) 687
- JASIM, F., HAMID, K. (Univ. Baghdad, Coll. Sci. Dept. Chem. Baghdad, Iraq): A new mechanism for the thermal degradation of $\text{BP}_3\text{H}_2\text{O}$ with V_2O_5 and TiO_2 semiconductors a phase diagram study. *Thermochem. Acta* 81(1984) 273
- JE, J. H., LEE, J. Y. (Korea Adv. Inst. Sci. and Technol. Dept. Mat. Sci. and Engr. POB 150 Seoul 131, South Korea): How in pyrolytic carbon formed? Transmission electron micrographs which can explain the change of its density with deposition temperature. *Carbon* 22(1984) 317
- JEHN, H., KOPACZ, V. (Max Planck Inst. Met. Forsch. Inst. Werkstoffwissensch. See Str. 92, D-7000 Stuttgart, Fed. Rep. Ger.): Influence of substrate temperature on some properties reactively sputtered TIN coatings. *Z. Metallk.* 75(1984) 862
- JEZEQUEL, J. Y., BARONNET, F., NICLAUSE, M. (Ecole Natl. Super Ind. Chim. Inst. Natl. Polytech. Lorraine CNRS, Lab. B28 Dept. Chim. Phys. React. F-54042 Nancy, France): The pyrolysis of propane at small extents of reaction. 2. Mathematical model and parameter fitting. *J. Chim. Phys. Chim. Biol.* 81(1984) 441
- JOHNSON, S. M., DALGLEISH, B. J., EVANS, A. G. (Univ. Calif. Berkeley Lawrence, Berkeley Lab. Berkeley, CA 94720, USA): High-temperature failure of polycrystalline alumina. III. Failure times. *J. Amer. Ceram. Soc.* 67(1984) 759
- JONES, A. D. W. (Univ. Newcastle Lipon Tyne Sch. Phys. Newcastle Tyne and Wear, England): The temperature field of a model czochralski melt. *J. Cryst. Growth* 69(1984) 165
- JONES, W. D., FEHER, F. J. (Univ. Rochester Dept. Chem. Rochester NY 14627, USA): Kinetics and thermodynamics of intra- and intermolecular carbon-hydrogen bond activation. *J. Amer. Chem. Soc.* 107(1985) 620

- JUNGLING, T. L., RAPP, R. A. (Nucl. Regulatory Commiss, Washington DC 20555, USA): High temperature oxidation of iron at 1200-degrees-C in a hot-stage environmental scanning electron microscope. *Met. Trans. A-Phys. Met. Mater. Sc.* 15(1984) 2231
- JUNOD, B. A., ROULET, C. (Univ. Geneva Dept. Phys. Mat. Condensee, CH-1211 Geneva 4, Switzerland): Heat capacity and thermal conductivity of bismuth germanate ($\text{Bi}_4\text{Ge}_3\text{O}_{12}$). *J. Cryst. Growth* 69 (1984) 138
- KAISERSBERGER, E. (Netzsch Geratebau GMBH, D-8672 Selb Bayern, Fed. Rep. Ger.): Application and efficiency of thermal analysis in a production laboratory. *Thermochim. Acta* 83(1985) 71
- KALANDAREV, R. I., SAZONOV, A. I., RADLONOV, A. N., CHIKVAIDZE, G. V., EIDUS, A. YA. (P. Stuchka State Univ. Solid State Phys. Res. Inst. Riga, LASSR): Effect of the condensation temperature on the stability of yellow arsenic. *Inorg. Mater-Engl. Tr.* 20(1984) 476
- KAMEGASHIRA, N., HIYOSHI, Y., WAJIMA, N. (Toyohashi Univ. Technol. Dept. Mat. Sci. Tempaku Cho, Toyohashi, Aichi 440, Japan): Thermochemical properties of PrMnO_3 at high-temperature. *J. Mater. Sci. Lett.* 4(1985) 103
- KANERVA, L. T., EURANTIO, E. K., CLEVE, N. J. (Univ. Turku, Dept. Chem. and Biochem., SF-20500 Turku 50, Finland): Temperature dependence of activation parameters in the neutral ester hydrolysis in acetone+water solutions. *Acta Chem. Scan. Ser. B.* 38(1984) 803
- KATIME, I., OCHOA, J. R. (Univ. Pais Vasco, Fac. Ciencias Dept. Quim. Fis. Propiedades Termodinam. Macromolec. Disoluc GRP, Bilbao Spain): Viscosity-temperature relationships for dilute solutions of poly(cyclohexyl-methacrylate) in methyl isobutyl ketone. *J. Appl. Polym. Sci.* 29(1984) 4427
- KAWANO, H., KENPŌ, T. (Ehime Univ. Fac. Sci. Dept. Chem. 2-5 Bunkyo Cho, Matsuyama, Ehime 790 Japan): Thermal positive ion production from KCl impinging upon Re. Comparison between theory and experiment. *J. Chem. Phys.* 81(1984) 6310
- KAWANO, H., KENPO, T. (Ehime Univ. Fac. Sci. Dept. Chem. Matsuyama, Ehime 790, Japan): Temperature dependence of the collection efficiency of positive ions produced by molecular beam surface ionization. *Int. J. Mass Spectrum Ion Proc.* 62(1984) 227
- KEHIAIAN, H. V. (Univ. Paris 7. CNRS, Inst. Topol. and Dynam. Syst. 1 Rue Guy de la Brosse F-75005 Paris, France): Thermodynamics of binary liquid organic mixtures. *Pure Appl. Chem.* 57(1984) 15
- KEHLEN, H., RATZSCH, M. T. (TH Carl. Schorlemmer Leuna Merseburg Sect. Chem. Merseburg 6, DDR-4200 Merseburg, Ger. Dem. Rep.): Separate treatment of paraffins and aromatics in complex hydrocarbon mixtures by continuous thermodynamics. *Z. Phys. Chem. Leipzig*-265(1984) 1049
- KENYON-BLAIR, E., MORCOM, K. W. (Univ. Leicester Dept. Chem. Leicester LE1 7RH, England): Excess enthalpy of (tetrachloromethane+2-propane) deuterium isotope effect. *J. Chem. Thermodyn.* 16 (1984) 1141
- KHADIKAR, P. V., ALI, S. M., HEDA, B. (3 Khatipura RD Indore 452001, India): Kinetics of thermal dehydration of some bis-(4-aminosalicylate)-diaquo complexes of transition metal ions. *Thermochim. Acta* 82(1984) 253
- KHAIRUTDINOV, K. A. 3rd law of thermodynamics. *Zh. Fiz. Khim. SSSR* 58 (1984) 2902
- KHAN, M. R., JENKINS, R. G. (Penn State Univ. Dept. Mat. Sci. and Engn. University PK. PA 16802, USA): Thermoplastic properties of coal at elevated pressures 2. Low-temperature preoxidation of a Pittsburgh Seam coal. *Fuel* 64(1985) 189
- KHANNA, Y. P., TURI, E. A., SIBILIA, J. P. (Allied Chem. Corp. Res. and Dev. Morristown, NJ 07960, USA): High temperature aging of halar film II. Analysis of

- melting behavior. *J. Polym. Sci. Polym. Phys. Ed.* 22(1984) 2175
- KHARTONOV, Y. Y., TUIEBAKHOVA, Z. K. (DI Mendeleev Chem. Technol. Inst. Moscow, USSR): Thermal decomposition of zinc and cadmium anhydrous salicilates. *Zh. Neorg. Khim. SSSR* 29(1984) 3030
- KHUSEINOV, B., SHEROV, P., MAKHMUDOV, E., SAMIEV, S. (SU Umarov, Physiotech. Inst. Dushanbe, TASSR): Thermal expansion and some elastic properties of semiconducting glass with the composition $(\text{CdAs}_2)_{0.8} \text{O}_{1.2}$. *Inorg. Mater. Engl. Tr.* 20(1984) 732
- KIROVSKAYA, I. A., ZELYEVA, G. M., YURYEVA, A. V. (Omsk. Polytech. Inst. OMSK, USSR): Thermodesorptive analysis of GaAs and ZnSe surface. *Talanta* 32 (1985) 57
- KLEPPA, O. J., TOPOR, L. (Univ. Chicago, James Franck Inst. Chicago IL, 60637, USA): Thermochemistry of binary liquid gold alloys: The systems (Au+Cr), (Au+V), (Au+Ti), and (Au+Sc) at 1379K. *Met. Trans. A Phys. Met. Mater. Sci.* 16(1985) 93
- KOCH, C. C., KROEGER, D. M., McKAMEY, C. G., SCARBROUGH, J. O. (Oak Ridge Assoc. Univ. Div. Met. and Ceram Oak Ridge, TN 37830, USA): The thermal and mechanical stability of $\text{Fe}_{9.0-x} \text{Al}_x \text{Zr}_{1.0}$ metallic glasses. *Acta Met.* 32 (1984) 2053
- KOCH, E. (Max Planck Inst. Strahlenchem. D-4330 Mulheim, Fed. Rep. Ger.): Reaction kinetics at linearly increased temperature IV. Relationship between DTA curves, rate curves and adiabatic calorimetry. *Thermochim. Acta* 82 (1984) 293
- KOHLI, R., LACOM, W. (Battelle Mem. Inst. Columbus Labs. Nucl. Technol. Sect. 505 King Ave, Columbus OH, 43201, USA): Heat capacity and thermodynamic properties of alkali metal compounds. IV. Cesium and rubidium chromates. *Thermochim. Acta* 81(1984) 327
- KOKHANOVSKII, V. V., ZEMTSOVA, Z. N. (Acad. Sci. BESSR, Inst. Gen. and Inorgan Chem. Minsk, BESSR): Thermal dehydration of magnesium diphosphate crystal hydrates. *Inorg. Mater. Engl. Tr.* 20 (1984) 536
- KONIN, A. M., SAŠCIUK, A. P. (Acad. Sci. LISSR, Inst. Semicond. Phys. Pozhelos 52, Vilnius 232600 LISSR): Thermogradient magnetoconcentration effect. *Phys. Status Solidi-A-Appl. Res.* 86(1984) K55
- KONSTANTINOV, S. V., IGNATEV, Y. A., SOKOLOV, I. P., SELEZHEV, V. P. (DI Mendeleev Chem. Technol. Inst. Moscow, USSR): Thermal decomposition of fluorouranylates of alkaline metals. *Zh. Neorg. Khim. SSSR* 29(1984) 2869
- KOMATSU, S., YOSHIDA, T., AKASHI, K. (Univ. Tokyo, Fac. Engr. Dept. Met. and Mat. Sci. Bunkyo KV, Tokyo, 113, Japan): Chemical transport of boron in a low pressure hydrogen plasma. *J. Mater. Sci. Lett.* 4 (1985) 51
- KORSHAK, V. V., GRIBOVA, I. A., KRASNOV, A. P., BEKAURI, V. N., KOMAROVA, L. L., TROKHOVA, S. Sh, DUORIKOVA, R. A., TEPLYAKOV, M. M. (AN Nesmeyanov Organoelement CPDS Inst. Moscow, USSR): Study of high-temperature moulding of polyphenylene prepolymer made on the basis of 4,4'-diacetyldiphenil oxide. *Vysokomol. Soedin. Ser. A SSSR* 26(1984) 2625
- KORSHAK, U. V., PAVLOVA, S. S. A., GRIBKOVA, P. N., GRIBOVA, I. A., VINOGRADOVA, O. V., CHATOVA, L. L., VINOGRADOVA, S. V., TUR, D. R., ZARUBINA, I. V. (AN Nesmeyanov Organoelement CPDS Inst. Moscow, USSR): Study of thermal degradation of card poly-1,3,4-oxadiazol and its compositions. *Vysokomol. Soedin. Ser. A SSSR* 27 (1985) 161
- KOSHCHENKO, V. I., UGAI, YA. A., DEMIDENKO, A. F., KOSHCHENKO, R. V. (DI Mendeleev Chem. Technol. Inst. Moscow, USSR): Thermodynamic functions of $\text{GeAs}_{0.5} \text{P}_{0.5}$ in the interval 5-300 °K. *Inorg. Mater. Engl. Tr.* 20(1984) 730

- KOZIN, V. G., DIYAROV, I. N., KOMLEVA, L. É., ANTOSHKOVA, L. B. (SM Kirov Chem. Technol. Inst. Kazan, USSR): Thermodynamic characteristics and molecular interaction during dissolution of organic solvents in organosulfur compounds. *J. Appl. Chem.-Engl. Tr.* 57(1984) 1007
- KRAIEWSKI, A., RAVAGLIOLI, A., AZZONI, C. B. (CNR, Inst. Technol. and Res. Ceram, Faenza, Italy): Thermal expansion in a CuO-doped silico-phosphate glass. *J. Mater. Sci. Lett.* 4(1985) 6
- KRATZKE, H., MÜLLER, S. (Ruhr Univ. Bochum Inst. Thermo and Fluidynam. D-4630 Bochum, Fed. Rep. Ger.): Thermodynamic quantities for propane. 3. The thermodynamic behaviour of saturated and compressed liquid propane. *J. Chem. Thermodyn.* 16(1984) 1157
- KRESTOV, G. A. (Acad. Sci. USSR, Inst. Nonaqueous Solut. Chem. Ivanovo, USSR): Thermodynamics and structure of solutions. *J. Struct. Chem.-Engl. Tr.* 25(1984) 252
- KRETZSCHMAR, K., HOFFMANN, K. W. (Siemens AG. Res. and Dev. Labs. Polymer Anal. POB. 3240, D-8520 Erlangen Fed. Rep. Ger.): Kinetic aspects arising during the differential scanning calorimetric investigation of curing epoxy resins with anhydrides. *Thermochim. Acta* 83(1985) 139
- KRIEN, G. (Bundesamt Wehrtech, and Beschaffung, Bundesinst Chem. Tech. Untersuchungen D-5357 Swisttal 1, Fed. Rep. Ger.): Thermoanalytische Untersuchungen an Rauchfarbstoffen. *Thermochim. Acta* 81(1984) 29
- KRUGER, E. M., SMYKATZKLOSS, W. (Univ. Karlsruhe, Inst. Mineral. D-7500 Karlsruhe, Fed. Rep. Ger.): Differential thermal analysis as an indicative method for the determination of soil mineral damage. *Thermochim. Acta* 83(1985) 107
- KRYLOV, E. A., RABINOVICH, I. B., TSVETKOV, U. G., SHVAREVA, G. N. (NI Lobachevskii State Univ. Chem. Res. Inst. Gorki, USSR): Thermodynamic characteristics of interactions of SG-I cationate with water. *Zh. Obshch. Khim. SSSR* 54(1984) 2176
- KUMAGAI, T., OKAMOTO, C., MIUZTA, S. (Natl. Chem. Lab. Ind. Yatabe, Ibaraki, 305, Japan): Thermal decomposition of magnesium sulfate and separation of the product gas mixture. *Denki Kagaku* 52(1984) 812
- KUMAGAI, T., SHINDO, Y., MIZUTA, S. (Natl. Chem. Lab. Ind. Yatabe, Ibaraki 305, Japan): Thermal efficiency of the Mg-S-I Cycle for thermochemical hydrogen production. *Denki Kagaku* 52(1984) 839
- KUMARAN, M. K., BENSON, G. C., D'ARCY, P. J., HALPIN, C. J. (Natl. Res. Council Canada, Div. Chem. Ottawa, Ontario, Canada KIA, OR6): Speed of sound molar volume, and molar isobaric heat capacity for binary liquid mixtures: analysis in terms of van der Waals's one-fluid theory. *J. Chem. Thermodyn.* 16(1984) 1181
- KUNZE, W., MOHLER, H. (Perkin Elmer Offenbach, Berliner Str. 312, Offenbach, Fed. Rep. Ger.): Characterization of processing parameters for injection molding of thermoplastics and thermosetting plastics using thermal analysis. *Thermochim. Acta* 82(1985) 47
- KWONG, D. L. (Univ. Notre Dame Dept. Elect. Engr. Notre Dame, IN 46556, USA): Rapid thermal annealing of co-sputtered tantalum silicide films. *Thin Solid Films* 12(1984) 43
- LAMPRECHT, I. (Free Univ. Berlin, Inst. Biophys. Thiel Allee 63, D-1000 Berlin 33 Fed. Rep. Ger.): Application of thermoanalytical methods in biochemistry and biotechnology. *Thermochim. Acta* 83(1985) 81
- LANZONI, E., POLI, G., CENTI, G. (Univ. Bologna Ist. Met. 1-40126 Bologna, Italy): Influence of composition on the thermal behaviour of chemically deposited nickel-phosphorus alloys. *J. Thermal Anal.* 29(1984) 701
- LAZERKO, G. A., SHISHO, M. A., NEIKLADNOVA, L. N., NALIVAICO, A. G., RATKOVSKII, I. A. (VI Lenin State Univ.

- Minsk, BESSR): Thermolysis of outer-spherical aminoforniate cobalt(III) complex. *Zh. Neorg. Khim. SSSR* 29(1984) 3076
- LEBEDEV, B. V., KULAGINA, T. G., SVISTUNOV, V. S.; PAPKOV, V. S., ZHDANOV, A. A. (NI Lobachevskii State Univ. Chem. Res. Inst. Gorki, USSR): Calorimetric study of 1,1,3,3,5,5-hexaethylcyclotrisiloxane, polydiethylsiloxane and of the process of polymerization of 1,1,3,3,5,5-hexaethylcyclotrisiloxane in the 13-330K region. *Vysokomol. Soedin. Ser. A SSSR* 26 (1984) 2476
- LEITNER, J., VOŇKA, P., ČERNÝ, Č. (Prague Inst. Chem. Technol. Dept. Phys. Chem. Suchbatarova 5, CS-16628 Prague 6. Czechoslovakia): Thermodynamic analysis of CUD processes. *Chem. Listy* 78 (1984) 1233
- LESNIKOVICH, A. I., LEVCHIK, S. V., KOVALENKO, K. K., GUSLEV, V. G. (Byelorussian State Univ. Inst. Physicochem. Problems, Minsk 220080, BeSSR): Thermolysis of potassium tetraperoxochromated(V). III. Self propagation regime. *Thermochim. Acta* 81(1984) 245
- LEW, P. W., HELMS, C. R. (IBM Corp. Hopewell Junction, NY. 12533, USA): Effects of platinum silicide thickness and annealing temperature on arsenic redistribution. *J. Appl. Phys.* 56 (1984) 3418
- LI, I. F., SEMENOV, L. V., GAILE, A. A., PULTSIN, M. N. (Lensovet Technol. Inst. Leningrad, USSR): Thermodynamic functions of mixtures in aromatic carbohydrate-acetonitrile systems. *Zh. Fiz. Khim. SSSR* 58(1984) 2435
- LOBB, R. C. (Cent. Elect. Generating Board, Berkeley Nucl. Labs. Berkeley GL13 9PB Glos, England): The use of a microbalance technique to study high-temperature oxidation spallation of a stainless steel. *Thermochim. Acta* 82(1984) 91
- LOEBLICH, K. R. (Kali and Sale AG. Potash Res. Inst. D-3000 Hannover, Fed. Rep. Ger.): A theoretical contribution to the analysis of DTA peaks of rapid reactions. *Thermochim. Acta* 83(1985) 99
- LORENZ, M., KEMPE, G. (TH Carl Schorlemmer Leuna Merseburg, Sekt Chem. DDR-4200 Merseburg, Ger. Dem. Rep.): Thermische Analyse eines chloridhaltigen barischen cobaltcarbonates. *J. Thermal Anal.* 29 (1984) 581
- LUFT, V., BERGMANN, H. W. (Tech. Univ. Clausthal, Inst. Werkstoffkunde und Werkstofftechn. Agricola Str. 2. D-3392 Clausthal Zellerfe Fed. Rep. Ger.): Use of temperature change experiments in calorimetry. *Thermochim. Acta* 83(1985) 29
- LVOVSKY, YU. M. (Acad. Sci. UKSSR Inst. Geotech. Mech. Dnepropetrovsk 95, UKSSR): Velocity of normal zone propagation in a superconductor with temperature-dependent properties and heat transfer. *Cryogenics* 24 (1984) 691
- LYNCH, J. F., LIBOWITZ, G. G., MAELAND, A. J. (Allied Chem. Corp. Morristown, NJ 07960, USA): Thermodynamic stabilities of hydrides of Nb-V alloys. *J. Less-Common Metals* 103(1984) 131
- LYSYAK, T. V., RUSAKOV, S. L., KOLOMNIKOV, I. S., KHITROVA, A. V., KHARITONOV, X. Y. (DI Mendeleev Chem. Technol. Inst. Moscow, USSR): Thermolysis of univalent thallium carboxylates. *Zh. Neorg. Khim. SSSR* 29(1984) 3035
- MacDONALD, W. M., ANDERSON, A. C., SCHROEDER, J. (Univ. Illinois, Dept. Phys. 1110 W Green St. Urbana, IL 61801, USA): Low-temperature behavior of potassium and sodium silicate glasses. *Phys. Rev. B-Condensed Matter* 31 (1985) 1090
- MACHIDA, C. A., MUNIR, Z. A. (Univ. Calif. Davis. Coll. Engn. Div. Mat. Sci. and Engn. Davis CA 95616, USA): The development of thermal etch pits on cleaved NaCl crystals in the presence of an electric field. *J. Cryst. Growth* 68(1984) 665
- MACK, G. X., ANDERSON, A. C. (Univ. Illinois Dept. Phys. 1100 W Green St. Urbana, IL 61801, USA): Low-temperature behavior of vitreous silica containing neon solute. *Phys. Rev. B-Condensed Matter* 31 (1985) 1102

- MAHAJAN, S., PRAKASH, S. (Panjab Univ. Dept. Phys. Chandigarh, 160014, India): Heat of solution of hydrogen in aluminium. *Phys. Status Solidi B-Basic Re.* 126 (1984) 467
- MAHARAJH, D. M. (Univ W Indies Dept. Chem. St. Augustine Trinid and Tobago): Excess volumes and viscosity of sulfolane-tetramethylurea mixtures at 25.34 and 45 °C. *Thermochim. Acta* 81 (1984) 15
- MAKANI, S., BRIGODIOT, M., MARECHAL, E., DAWANS, F., DURAND, J. P. (Univ. Pierre and Marie Curie, CNRS, Synth. Macromolec. Lab. 24,12 Rue Cuvier, F 75005 Paris, France): Thermal stability, fractionation and chemical modification of chlorinated rubbers. I. Infrared and ¹³C-NMR study of the structure of chlorinated natural rubber modified under various experimental conditions. *Tetrahedron Lett.* 26 (1985) 4081
- MAKHROV, V. V., OKULICH-KAZARIN, E. G. (GM Krzhizhanovskii Power Engr. Inst. Moscow, USSR): The thermal conductivity and temperature step in magnesium vapor at high temperatures. *High. Temp. Engl. Tr.* 22 (1984) 226
- MAKOVETSKAYA, L. A.; BELEVICH, N. N., BODNAR, I. V., GRUTSO, S. A., YAROSHEVICH, G. P. (Acad. Sci. BESSR, Inst. Solids and Semicond Phys. Minsk, BESSR): Thermal conductivity of ternary chalcogenides of the type A^{III}X₂VI. *Inorg. Mater-Engl. Tr.* 20 (1984) 322
- MALAVASIC, T., OSREDKAR, V., ANZAR, I., VIZOVISEK, I. (Boris Kidric Chem. Inst. Hajdrihova 19, Ljubjana, Yugoslavia): Study of the polymerization of some methacrylic and ester by differential scanning calorimetry. *J. Thermal Anal.* 29 (1984) 697
- MALECKI, A., TAREEN, J. A. K., DOUMERC, J. P., RABARDEL, L., LAUNAY, J. C. (CNRS Chim. Solide Lab. 351 Cours Liberat. F-33405 Talence, France): Kinetics of thermal decomposition of Co₃O₄ powder and single crystals. *J. Solid State Chem.* 56 (1985) 49
- MALYSHEV, V. P., BELYAEV, S. V., BEKTURGANOV, N. S., KULZHANOV, A. T. (Acad. Sci. KASSR, Inst. Chem. and Met. Karaganda, KASSR): Definition of kinetic and thermodynamic characteristics of silicon dioxide dissolution. *Zh. Fiz. Khim. SSSR* 58 (1984) 2451
- MARIN, V. P., KLIMENKO, A. N., LEVITSKII, V. A., MEN'SHENIN, YU, V., SKOLIS, YU, YA. (Moscow Radioengn. Electr. and Autom Inst. Moscow, USSR): Thermodynamics of the reaction of HO₂O₃ and Cu₂O₃ with W and WO₂. *Inorg. Mater-Engl. Tr.* 20 (1984) 391
- MARONGIV, B., FERINO, I., SOLINAS, V., TORRAZZA, S., KEHIAIAN, H. V. (Ist. Chim. Fis. and Ind. Via Osped 72, I-9100 Cagliary, Italy): Calorimetric study of molecular interaction in mixtures of substances containing carbonyl and dialkyl-amino groups. *J. Thermal Anal.* 29 (1984) 711
- MAROULIS, A. J. HADJANTONIOUMAROULIS, C. P. (Aristotelian Univ. Salonika, Dept. Chem. Salonika, Greece): The thermal isomerization of 1-(alpha-aryloxy-benzylideneamino)-4,5 dimethyl 1,2,3 triazoles (isoimides) to the corresponding imides. *J. Heterocycl. Chem.* 21 (1984) 1653
- MARSH, J. G., CROSBY, S. A., GLASSON, D. R., MILLWARD, G. E. (Plymouth Politech. Dept. Marine Sci. Plymouth PL4 8AA Deyon, England): BET Nitrogen adsorption studies of iron oxides from natural and synthetic sources. *Thermochim. Acta* 82 (1984) 221
- MARSH, K. N., (Texas A and M Univ. Thermodynam. Res. Ctr. College Stn, TX. 77840, USA): Excess enthalpies and excess volumes of nitromethane+and nitroethane+each of several non-polar liquids. *J. Chem. Thermodyn.* 17 (1985) 29
- MARSH, K. N., ALLAN, W. A., Richards, A. E. (Texas A and M Univ. Thermodynam. Res. Ctr. College Stn TX 77843, USA): Excess enthalpies and excess volumes of 1-nitropropane+, and 2-nitropropane+each of several

- non-polar liquids. *J. Chem. Thermodyn.* 16 (1984) 1107
- MARTINEZ, M., IRABIEN, A., ARNAIZ, A. R., SANTIAGO, C. (Univ. Complutense Madrid, Fac. Quim. Madrid, Spain): Reaction scheme in the non-isothermal decomposition of $(C_6H_5NH_2)_4Mo_8O_{26} \cdot 2H_2O$. *J. Thermal Anal.* 29 (1984) 589
- MASSEN, C. H., ROBENS, E., POULIS, J. A., GAST, T. (Eindhoven Univ. Technol. Dept. Phys. 5600 MB Eindhoven, Netherlands): Disturbances in weighing 1. A survey of work presented at the preceding conferences. *Thermochim. Acta* 82 (1984) 43
- McENANEY, B., MASTERS, K. J. (Univ. Bath Sch. Mat. Sci. Bath BAZ 7AY Avon, England): Assessment of adsorption in microporous carbons. *Thermochim. Acta* 82 (1984) 81
- McLELLAN, R. B., SUTTER, P. L. (William Marsh Rice Univ. Dept. Mech. Engr. and Mat. Sci. Houston TXA 251, USA): Thermodynamics of the hydrogen nickel system. *Acta Met.* 32 (1984) 2233
- MESCHTER, P. J., OWENS, K. E., TUNG, T. (Mc Donnell Douglas Corp. McDonnell Douglas Res. Labs. St. Louis MO, 63166, USA): Determination of liquids temperatures of Hg-Rich Hg-Cd, Te alloys by differential thermal analysis. *J. Appl. Cryst.* 17 (1984) 33
- MEYER, G. (Univ. Giessen, Inst. Anorgan and Analyt. Chem. Heinrich Buff. Ring 58, D-6300 Giessen, Fed. Rep. Ger.): Na_3GaCl_6 : single crystals of the low temperature form by metallothermic reduction of $GdCl_3$ with Na. *Z. Anorg. Allg. Chem.* 517 (1984) 191
- MILLET, J. M., SEBAOUN, A., THOMAS, G. (Univ. Lyon J. Phys. Chim. Minerale Lab. 2. F-69622 Villeurbanne, France): Solid-solid transitions in the system $CaO-Na_2O-P_2O_5$ subsystem $Ca_2(PO_4)_2-CaNaPO_4$. A study by means of X-ray diffraction at different temperatures. *J. Thermal Anal.* 29 (1984) 445
- MORENOCARRATERO, M. N., SALASPE-REGRIN, J. M., MATAARJONA, A. (Univ. Coll. Jaen Dept. Inorgan Chem. Jén, Spain): Thermal studies on metal complexes of 5-nitroso-pyrimidine derivatives. 1. Thermal behaviour of Zn(II) complexes of 6-amino-5-nitrosouracil derivatives. *J. Thermal Anal.* 29 (1984) 553
- MOTOMURA, K., YAMANAKA, M., ARATONO, M. (Kyushu Univ. 33, Fac. Sci. Dept. Chem. Fukuoka 812, Japan): Thermodynamic consideration of the mixed micelle of surfactants. *Colloid Polym. Sci.* 262 (1984) 948
- MULLER, U., TIMPE, H. J., GUSTAV, K. (TH Carl Schorlemmer Leuna Merseburg, Sekt. Chem., Otto Nuschke Str. DDR-4200 Merseburg, Ger. Dem. Rep.): About the photochromic and thermochromic effect of benzil phenylhydrazone. *J. Prakt. Chem.* 326 (1984) 876
- MURTHY, J. S. N., SATYANARAYANA, M. (Reg. Engr. Coll. Dept. Chem. Engr. Rourkela 8, India): Studies on the reaction between manganic oxide and molybdenum trioxide. *Thermochim. Acta* 81 (1984) 67
- MURZUBRAIMOV, B., ISMAILOV, M. (OSH Teachers Inst. OSH, KISSR): Thermal stability of complexes of some acetates of rare earth metal with carbamides. *Zh. Neorg. Khim. SSSR* 30 (1945) 70
- NAKAMURA, T., TAKASHIGE, M., TE-RAUCHI, H., MIURA, YU-CHI, LAWLESS, W. N. (Tokai Univ. Dept. Electr. Engr. Hiratsuka, Kanagawa 25912, Japan): The structural dielectric, Raman-spectral and low temperature properties of amorphous $PbTiO_3$. *Jpn. J. Appl. Phys. Pt. 123* (1984) 1265
- NAKWASKI, W. (Tech. Univ. Lodz, Inst. Phys. Wolczanska 219, PL-93005 Lodz, Poland): Spreading thermal resistance of the heat-sink of a light emitting diode. *Solid State Electron* 27 (1984) 823
- NASSAR, M. M., MACKAY, G. D. M., (Minia Univ. Fac. Engr. El Minia Egypt): Studies on the mechanism of flame retarding. *Thermochim. Acta* 81 (1984) 9

- NAVARD, P., HAUDIN, J. M. (Ecole Natl. Super Mines Paris, Ctr. Mise and Forme Matériaux CNRS, ERA 837, Sophia Antipolis, F-06565 Valbonne, France): The height of DSC phase transition peaks. 1. Theory. *J. Thermal Anal.* 29(1984) 405
- NAVARD, P., HAUDIN, J. M. (Ecole Natl. Super Mines Paris, Ctr. Mise and Forme Matériaux CNRS, ERA 837, Sophia Antipolis, F-06565 Valbonne, France): The height of DSC phase transition peaks. 2. Some applications to liquid crystals. *J. Thermal Anal.* 29(1984) 415
- NIKOLAENKO, I. V., BATALIN, G. I., BELOBORODOVA, E. A., ZHURAVLEV, V. S., SUKHODOLA, N. Y. (IV Kurchator Atom Energy Inst. Moscow 123182, USSR): Enthalpy of titanium dissolving in Pb-Ti melts. *Zh. Fiz. Khim. SSSR* 58 (1984) 2866
- NIKOLAENKO, I. V., BELOBORODOVA, E. A., BATALIN, G. I., ZHURAVLEV, V. S. (IV Kurchatov Atom Energy Inst. Moscow 123182, USSR): Enthalpies of titanium dissolving in Sn-Ti melts. *Zh. Fiz. Khim. SSSR* 58(1984) 2873
- NIKORONOV, YU. I., POROSHINA, I. A., ZHUZHGOV, E. I. (Acad. Sci. USSR, Novosibirsk, USSR): Pyrolysis products from the compound of graphite with bromine trifluoride. *Inorg. Mater-Engl. Tr.* 20(1984) 431
- NIRSHA, B. M., AVDONINA, L. M., SEREBRENNIKOVA, G. M. (All Union Chem. Reagent and Highly Pure Chem. Subst. Res. Inst. Moscow, USSR): Thermolysis of potassium phthalates. *Zh. Neorg. Khim. SSSR* 30 (1985) 13
- NIRSHA, B. M., KHOMUTOVA, T. V., EFREMOV, V. A., ZHADONOV, B. V., FAKKEEV, A. A., OLIKOVA, V. A. (All Union Chem. Reagent and Highly Pure Chem. Subst. Res. Inst. Moscow, USSR): Thermal decomposition of $Cd(H_2PO_4) \cdot 2H_2O$. *Zh. Neorg. Khim. SSSR* 30(1985) 16
- NISHINARI, K., WATASE, M., OGINO, K. (Minist. Agr. Forestry and Fisheries Natl. Food Res. Inst. Tsukuba Ibaraki 305, Japan): On the temperature dependence of the elasticity of agarose gels. *Makromol. Chem-Macro Chem. Phys.* 185 (1984) 2663
- NOMAYR, H., ROTHBACHER, H. (Univ. Tokyo, Fac. Engn. 7-3-1 Hongo, Bunkyo KV, Tokyo 113 Japan): Importance of thermo-analytical methods for quality control in the car building industry. *Thermochim. Acta* 83 (1985) 131
- OKANO, S., SUZUKI, M., FUKADA, N., IMURA, T., HIRAKI, A. (Kanazawa Univ. Fac. Technol. Kanazawa Ishikawa 920, Japan): Impurity effects in chalcogenide amorphous semiconductors by low temperature diffusion of metal ions. *Jpn. J. Appl. Phys. Pt. 1*, 23(1984) 1320
- ONUSSEIT, H., STEGENMEYER, H. (Univ. Paderborn, Dept. Phys. Chem. D-4790 Paderborn, Fed. Rep. Ger.): Investigations of phase diagrams with monotropic liquid-crystalline phases. *Thermochim. Acta* 83 (1985) 145
- OPREA, C., POPESCU, C., SEGAL, E. (Cent. Ind. Matasii Inului and Cinepi, BD-Ghencea 134, Bucharest, Romania): Kinetic study of the thermal decomposition of tetraethylthiouranium disulphide (TETUDS). *Thermochim. Acta* 81(1984) 369
- ORTEGA, J. (Polytech. Univ. Las Palmas, Escuela Super Ing. Ind. Catedra Termodinam. and Fisioquim Las Palmas, Spain): Densities and thermal expansivities of hexanol isomers at moderate temperatures. *J. Chem. Eng. Data* 30(1985) 5
- OYA, A., OMATA, Y., OTANI, S. (Gumma, Univ. Fac. Engn. Kiryu, Gumma 376, Japan): Thermal degradation behaviour of montmorillonite- α -naphthylamine complex under nitrogen. *J. Mater. Sci.* 20 (1985) 255
- PADEROVA, L. V., NIKOLINA, S. A., KOCHERGIN, V. P. (AM Gorkii State Univ. Sverdlovsk, USSR): High temperature reactions of polyphosphate with alkali metal nitrates. *Zh. Neorg. Khim. SSSR* 29 (1984) 3111
- PAIČ, M., PAIČ, V. (Univ. Zagreb Inst. Phys. YU-41001 Zagreb, Yugoslavia): Phase and phase transitions of the superionic con-

- ductor Ag_2HgI_4 in the temperature range between 4,2K and 370K detected by diffuse reflectance spectrometry. *Solid State Ionics* 14(1984) 187
- PANDA, C. R.; CHAKRAVORTTY, V., DASH, K. C. (Utkal Univ. Dept. Chem. Bhubaneswar 75 1004 Orissa, India): Thermal decomposition studies of furfural-based Schiff base complexes of uranyl halides and pseudohalides. *Thermochim. Acta* 81 (1984) 237
- PANEVCHIK, V. V., GORYAEV, V. M. (VV Kiubyshev Natl. Econ. Inst. Minsk, BESSR): Thermal transformations of zinc valerates. *Zh. Neorg. Khim. SSSR* 30(1985) 41
- PAPP, H., HINSEN, W., DO, N. T., BAERNS, M. (Ruhr Univ. Bochum, Lehrstuhl Tech. Chem. D-4630 Bochum, Fed. Rep. Ger.): The adsorption of methane on H-ZSM-5 Zeolite. *Thermochim. Acta* 82(1984) 137
- PARSANIA, P. H., PATEL, K. C., PATEL, R. D. (Sardar Patel Univ. Dept. Chem. Vallabh Vidyanagar 388120, Gujarat, India): Thermal behavior of the poly(2-methoxy) cyanurate of 1,1'-bis (4-hydroxy phenyl) cyclohexane. *J. Polym. Sci. Polym. Phys. Ed.* 23(1985) 199
- PASHINKIN, A. S., RABINOVICH, I. B., SHEIMAN, M. S., NISTRATOV, V. P., VOROBOVA, O. I. (Moscow Electr. Technol. Inst. Moscow 103498 USSR): Heat capacity and thermodynamic functions of tellurium dioxide in the range 5 to 300K. *J. Chem. Thermodyn.* 17(1985) 43
- PELIKH, L. N. (Acad. Sci. UKSSR, Inst. Low Temp. Engn. Phys. Kharkov 108, UKSSR): Low temperature dielectric anomalies induced by off-center Li^+ ion in layered ferroelastics. *Fiz. Tverd. Tela SSSR* 26 (1984) 3450
- PEDROSA, G. C., SALAS, J. A., DAVOLIO, F., KATZ, M. (Univ. Nacl. Tucuman Fac. Ciencias Exactas and Technol. Inst. Ingn. Quim. Catedra Fisicquim, RA-4000 Sun Miquel Tucuman, Argentina): Excess thermodynamic properties of 2-propanol+acetonitrile system at 323.15K. *An. Asoc. Quim. Argent* 72(1984) 541
- PERRIN, D., RICHARD, C., MARTIN, R. (Ecole Normale Super Jeunes Filles 1 Rue Maurice Arnoux, F 92120 Montrouge, France): Kinetics of the thermal reaction of cis-2 pentene around 500 degrees-C 1. Evidence for an auto-accelerating factor in the yields of methane and 1,3-butadiene at low extent of reaction. *J. Photochem.* 28 (1985) 617
- PETERSON, M. A., NASH, C. P. (Univ. Calif Davis, Dept. Chem. Davis, CA 95616, USA): Thermal proton transfer in crystalline, N,N-dialkylated amino acids. *J. Phys. Chem.* 89(1985) 22
- PETROV, A. N., CHEREPANOV, V. A., NOVITSKII, E. M., ZHUKOVSKII, V. M. (AM Gorkii State Univ. Sverdlovsk, USSR): Thermodynamics of La-Co-O system. *Zh. Fiz. Khim. SSSR* 58(1984) 2662
- PETROV, G. S., VECHER, A. A., VOLPIN, M. E., NOVIKOV, Y. N., SKOROPANOV, A. S. (VI Lenin State Univ. Physicochem. Problem Res. Inst. Minsk, BESSR): Investigation of thermal capacity of graphite layered compounds with copper(II) chloride. *Zh. Fiz. Khim. SSSR* 58(1984) 2868
- PILYUGIN, V. V., KRITSKAYA, D. A. PONOMAREV, A. N. (Acad. Sci. USSR, Inst. Chem. Phys. Chernogolovka, USSR): Calorimetric study of sorption of monomers by polymeric system. *Vysokomol. Soedin. Ser. B. SSSR* 26(1984) 907
- PITZER, K. S., OLSEN, J., SIMONSON, J. M., ROY, R. N., GIBBONS, J. J., ROWE, L. (Univ. Calif. Berkeley Dept. Chem. Berkeley, CA 94720, USA): Thermodynamics of aqueous magnesium and calcium bicarbonates and mixtures with chloride. *J. Chem. Engn. Data* 30(1985) 14
- PLATONOV, V. A., SIMULIN, Y. N.: Experimental analysis of standard enthalpy of polychlorobenzene formation. 2. Standard enthalpy of dichlorobenzene formation. *Zh. Fiz. Khim. SSSR* 58(1984) 2682
- PODOLSKII, A. V., EZHOVA, N. Y., BULATOV, M. A. (Acad. Sci. USSR, Ural Sci. Ctr. Inst. Chem. Sverdlovsk, USSR): Thermal de-

- struction of polycarboxylanes. *Zh. Obshch. Khim. SSSR* 54(1984) 2603
- POLYACHENOK, O. G. (Mogilev Technol. Inst. Mogilev BESSR): Derivation of 3rd law of thermodynamics from 1st and 2nd laws. *Zh. Fiz. Khim. SSSR* 58(1984) 2903
- POPESCU, C., SEGAL, E. (Cent. Cercerati Materi Prime, Auxilari Ape. Rezidual, Str. Siret 95, Bucharest, Romania): Variation of the maximum rate of conversion and temperature with heating rate in non-isothermal kinetics. Part II. *Thermochim. Acta* 82 (1984) 387
- POPESCU, C., STAN, M., SEGAL, E. (Cent. Cercetari Mat. Prime Auxiliare and Ape Rezidual, Str. Siret 95 Bucharest, Romania): On the correct rate expression in non-isothermal kinetics. *Thermochim. Acta* 81(1984) 375
- PRABHAKARAN, C. P., SARASUKUTTY, S. (Univ. Kerala, Dept. Chem. Trivandrum 695001, Kerala, India): Thermal decomposition studies on magnese(III) acetate dihydrate. *Thermochim. Acta* 82 (1984) 391
- PRITYKIN, L. M., ASKADSKII, A. A., GAL'PERN, YE. G., KORSHAK, V. V. (All Union Chem. Reagents and Highly Pure Chem. Subst. Res. Inst. Dnepropetrovsk, UKSSR): On the possibility of estimation of macromolecules thermodynamic flexibility by cohesion energies of their segments. *Vysokomol. Soedin. Ser. A. SSSR* 27 (1985) 24
- PRODAN, E. A., BULAVKINA, N. V. (Acad. Sci. BESSR, Inst. Gen. and Inorgan. Chem. Minsk, BESSR): Effect of the temperature and humidity on the rate of hydration. *Inorg. Mater-Engl. Tr.* 20 (1984) 539
- PROKUEV, V. A., BELOUSOV, E. A. (OV Kunsinen Univ. Petrozavodsk, USSR): Thermodynamics of alkaline-earth metal and magnesium extraction by tributylphosphate. *Zh. Fiz. Khim. SSSR* 58(1984) 2819
- PUKHOVSKAYA, V. M., SAVINOVA, E. N. (VI Vernadski Geochem. and Anal. Chem. Inst. Moscow, USSR): Thermodynamic approach to selection of thermochemical reagent in spectral determination of tungsten in mineral raw materials. *J. Anal. Chem. USSR-Engl. Tr.* 39 (1984) 674
- PYARE, R., NATH, P. (Banaras Hindu Univ. Inst. Technol. Dept. Ceram. Engr. Varanasi 221005, Uttar Pradesh, India): Kinetics and thermodynamics of ferrous-ferric equilibrium in sodium aluminoborate glasses. *J. Non-Cryst. Solids* 69 (1984) 59
- PYATENKO, A. T., GOROKHOV, L. N. (Acad. Sci. USSR, Inst. High Temp. Moscow U-71, USSR): Thermochemistry of polynuclear negative $U_2F_n(-)$ ions. *Zh. Fiz. Khim. SSSR* 58(1984) 2671
- QUARITSCH, K., BRAUN, G. (Acad. Sci. GDR, Gent. Inst. Nucl. Res. Rossendorf, Ger. Dem. Rep.): Quantitative differential thermal analysis of the reduction of uranyl fluoride. *J. Thermal Anal.* 29 (1984) 787
- QUINT, J. R., WOOD, R. H. (Univ. Delaware, Dept. Chem. Newark, DE, 19716, USA): Thermodynamics of a charged hardsphere ion in a compressible dielectric fluid. 2. Calculation of the ion-solvent pair correlation function, the excess solvation, the dielectric constant near the ion and the partial molar volume of the ion in a water-like fluid above the critical point. *J. Phys. Chem.* 89 (1984) 380
- RABINOVICH, I. B., KRYLOV, E. A. (NI Lobachevskii State Univ. Chem. Res. Inst. Gorki, USSR): Thermodynamics of the water dissolution process in SG-1 carboxylic cationite. *Zh. Fiz. Khim. SSSR* 38 (1984) 2600
- RAJENDRAN, G., JAIN, S. R. (Indian Inst. Sci. Dept. Aerosp. Engr. Propellant Chem. Lab. Bangalore 560012, Karnataka, India): Thermal analysis of monothiocarbonohydrazones. *Thermochim. Acta* 82 (1984) 311
- RAJENDRAN, S., WILCOX, W. R. (Clarkson Univ. Dept. Chem. Engr. Potsdam, NY, 13676 USA): Steady state thermal modeling of casting of silicon. *J. Cryst. Growth* 69 (1984) 62

- RAO, U. R. K., VENKATESWARLU, K. S., WANI, B. N. (Bhabka Atom Res. Ctr. Div. Water Chem. Bombay 4000 85 India): Mode of thermal degradation of $(\text{NH}_4)_3\text{VO}_2\text{F}_2 \cdot 1/2 \text{H}_2\text{O}$. *Thermochim. Acta* 81 (1984) 23
- READING, M., DOLLIMORE, D., ROUQUEROL, J., ROUQUEROL, F. (CNRS, Ctr. Rech. Microcalorimétrie and thermodynam. 26 Rue 114 Ria F-13003 Marseille, France): The measurement of meaningful activation energies—using thermoanalytical methods—a tentative proposal. *J. Thermal Anal.* 29 (1984) 775
- REDDY, V. B., MEHROTRA, P. N. (Univ. Roorkee, Dept. Chem. Roorkee 247667, Uttar Pradesh, India): Preparation spectral and thermal studies of neodymium zirconyl oxalate hexahydrate. *J. Thermal Anal.* 29 (1984) 399
- REICH, L., STIVALA, S. S. (Stevens Inst. Technol. Dept. Chem. and Chem. Engn. Holoken, NJ, 07030, USA): Computer-determined kinetic parameters from TG curves Part XI. *Thermochim. Acta* 81 (1984) 377
- REISZ, K., INCZEDY, J. (Univ. Veszprém, H-8201 Veszprem, Hungary): Investigation of complete oxidation of organic materials with thermal analytical measurements. *J. Thermal Anal.* 29 (1984) 567
- REKHARSKY, M. V., RUMSH, L. D., ANTONOV, V. K., GAL'CHENKO, G. L. (MV Lomonosov State Univ. Dept. Chem. Moscow 117234, USSR): Thermochemistry of the N-acetylphenylalanine methylester hydrolysis reaction catalyzed by α -chymotrypsin. *Thermochim. Acta* 81 (1984) 167
- RELLER, A., DAVOODABADY, G., OSWALD, H. R. (Univ. Zurich, Inst. Inorgan. Chem. Winterthurer Str. 190, CH-8057 Zurich, Switzerland): Reversible topotactic reduction of Perovskite-related calcium magnesium oxides. *Thermochim. Acta* 83 (1985) 121
- RESNIK, A., STERN, A., MORAN, A., SHALTIEL, D. (Hebrew Univ. Jerusalem, Racah Inst. Phys. Jerusalem, Israel): Temperature-programmed absorption of hydrogen in palladium powder. *J. Less-Common Metals* 103 (1984) 173
- REVA, T. D., SEMENOV, A. M. (Moscow Energy Inst. Moscow USSR): Calculation of thermodynamic properties of sodium and potassium vapors based on a semiempirical equation of state. The equation of state. *High Temp. Engl. Tr.* 22 (1984) 372
- REY, C., PEREZ VILLAR, V., RODRIGUEZ, J. R. (Univ. Santiago de Compostela, Fac. Fis. Dept. Termol. Santiago de Compostela, Spain): A model for variable mass calorimetry systems. *Thermochim. Acta* 81 (1984) 87
- REY, C., RODRIGUEZ, J. R., PEREZ-VILLAR, V., ORTIN, J., TORRA, V., DUBES, J. P., KECHAVARZ, R., TACHIORE, H. (Univ. Santiago de Compostela Fac. Fis. Dept. Termol. Santiago de Compostela, Spain): Thermogenesis identification and deconvolution in microcalorimetric system with continuous injection for the study of liquid mixtures. *Thermochim. Acta* 81 (1984) 97
- RITTER, J. E., GLAESEMANN, Jr., G. S., JAKUS, K. (Univ. Massachusetts Dept. Mech. Engn. Amherst, MA 01003, USA): Effect of temperature on the strength and fatigue behaviour of optical fibres. *J. Mater. Sci.* 19 (1984) 4087
- RIVÉROS-RAVELO, O., DIEU, H. (Univ. Liège, Serv. Chim. Organ Appl. B-4000, Liège, Belgium): Thermodynamic equilibrium related to light hydrocarbons in pyrolysis of oil shales. *J. Anal. Appl. Pyrol.* 7 (1984) 145
- ROBBINS, D. J., TAPSTER, P. R. (Royal Signals and Radar Estab. St Andrews RD, Malvern WR14, 3PS, Worcs, England): Thermal hysteresis in the photoluminescence spectra of semiconductors immersed in liquid helium. *J. Phys. C-Solid State Phys.* 17 (1984) 6211
- ROBENS, E., EYRAUD, C., ESCOUBES, M. (Battelle Inst. EV, AM Romerhof 35

- D-6000 Frankfurt 90, Fed. Rep. Ger.): Vacuum microbalances and thermogravimetric apparatus. 2. Types of recording instruments. *Thermochim. Acta* 82 (1984) 23
- ROBENS, E., MIKHAIL, R. S. (Battelle Inst. EV, AM Romerhof 35 D-6000 Frankfurt 90, Fed. Rep. Ger.): The ancient egyptian balance. *Thermochim. Acta* 82(1984) 63
- RODANTE, F. (Univ. Rome, Dipartimento Ingn. Chim. Mat. Prime and Met. 1-00100 Rome, Italy): Enthalpy-entropy relationship for some para and meta benzoic derivatives: statistics and thermodynamic theories. *Thermochim. Acta* 81 (1984) 139
- RODRIGUEZ-NUÑEZ, E., PAZ-ANDRADE, M. I., JIMENEZ, E., BRAVO, R. (Univ. Santiago de Compostela, Fac. Fis. Fundamentale, Santiago de Compostela, Spain): Thermodynamic properties of (a xylene+n n-alkanol) II. Excess molar enthalpies at 298.15K for 1-propanol, 1-butanol, and 1-pentanol. *J. Chem. Thermodyn.* 17 (1985) 23
- RÓG, G., BORCHARDT, G. (Stanislaw Staszic Univ. Min. and Met. Inst. Mat. Engn. PL-30059 Cracow, Poland): Thermodynamics of nickel orthosilicate. *J. Chem. Thermodyn.* 16(1984) 1103
- ROSENHOLM, J. B., HEPLER, L. G. (Swedish Univ. Abo, Dept. Phys. Chem. SF-20500 Abo 50, Finland): Apparent molar heat capacities and volumes of aqueous sodium propionate. *Thermochim. Acta* 81 (1984) 381
- ROSSI, P. F.; BUSCA, G. (CNR, Ist. Chim. Fis. Appl. Mat. Genova, Italy): Microcalorimetric and FT-IR spectroscopic study of benzene adsorption on alpha-Fe₂O₃ and gamma Al₂O₃. *J. Thermal Anal.* 29(1984) 745
- RUBTSOV, N. A., EMEL'YANOV, A. A., PONOMAREV, N. N. (Acad. Sci. USSR. Inst. Thermophys. Novosibirsk, USSR): Absorption parameter of fused aluminium oxide at high temperatures. *High Temp.-Engl. Tr.* 22 (1984) 240
- SADEK, F. S., HERRELL, A. Y. (Winston Salem State, Univ. Winston Salem, NC, 27102 USA): Methods Salem, NC, 27102, USA): Methods of proximate analysis by thermogravimetry. *Thermochim. Acta* 81 (1984) 297
- SAINI, D. R., SHENOY, A. V., NADKARANI, V. M. (Natl. Chem. Lab. Div. Chem. Engn. Polymer Sci. and Engn. GRP, Poona 411008 Maharashtra, India): Dynamic mechanical properties of highly loaded ferrite-filled thermoplastic elastomer. *J. Appl. Polym. Sci.* 29(1984) 4123
- SAITO, Y., MAKINO, M., YAMAZOE, N., SEIYAMA, T. (Kyushu Univ. Grad. Sch. Engn. Sci. Dept. Mat. Sci. and Technol. 6-1 Kasugakouen, Kasuga 816 Japan): Formation and thermal behaviour of metal hydroxide-interlocated tantalum disulfide. *Denki Kagaku* 52 (1984) 734
- SAKSENA, A. R., ARADHANA, (CMP Degree Coll. Dept. Chem. Allahabad 211002, India): Thermodynamics of molecular association of phenothiazines and iodine. *J. Phys. Chem.* 89(1985) 361
- SALASPEREGRIN, J. M., SUAREZVALA, J. (Univ. Granada, Fac. Sci. Dept. Inorgan. Chem. Granada, Spain): Synthesis characterization and thermal behaviour of some metal indigodisulphonates. *J. Thermal Anal.* 29(1984) 515
- SALMAN, S. M. (Natl. Rés. Ctr. Glass Res. Lab. Cairo, Egypt): Thermal expansion characteristics of some iron-containing glasses and their corresponding crystalline materials. *Thermochim. Acta* 81(1984) 125
- SALMAN, S. M., GHARIB, S. (Natl. Rés. Ctr. Glass. Res. Lab. Cairo, Egypt): Some physical properties concerning the thermal conductivity data of BaO-containing silicate glasses in relation to structure. *Thermochim. Acta* 82 (1984) 345
- SAMWER, K., TEBBE, J. (Univ. Gottingen, Inst. Phys. 1. D-3400 Gottingen, Fed. Rép. Ger.): Low temperature specific heat of non-crystalline metallic hydrides. *J. Less-Common Metals* 103 (1984) 92

- SANAHUJA, A., CESARI, E. (Univ. Barcelona, Fac. Fis. Dept. Termol. Barcelona 28, Spain): Enthalpy of solution of KCl and NaCl in water at 298.15K. *J. Chem. Thermodyn.* 16(1984) 1195
- SARTI, G. C., APICELLA, A., DE NOTARISTEFANI, C. (Univ. Bologna, Fac. Ingn. Ist. Impianti Chim. Viale Risorgimento 2, I-40136 Bologna, Italy): Effect of the thermal histories on case II. Sorption kinetics. Test of a kinetic theory for swelling. *J. Appl. Polym. Sci.* 29(1984) 4145
- SATO, S., KISHIMOTO, H. (Nagoya City Univ. Fac. Pharmaceut. Sci. Div. Phys. Chem. Mizuho, KU, Nagoya, Aichi 467, Japan): Thermodynamic and viscometric studies on the solution state of surfynol 465 in water. *Bull. Chem. Soc. Jpn* 58(1985) 282
- SAVITSKAYA, L. K., BUTKEVICH, L. M., DEREVYAGINA, L. S., KIRILLOV, V. A. (VD Kuznetsov Engr. Phys. Inst. Tomsk, USSR): Temperature dependence of the lattice parameters for phases of a directionally crystallized eutectic of the SiZrSi₂ system. *Inorg. Mater-Engl Tr* 20(1984) 203
- SAWA, T., IZUMI, K., TAKAHASHI, S., FURUTANI, Y., SUMITA, O. (Hitachi Res. Lab. 3-1-1 Saiwaicho Hitachi 317 Japan): Effect of temperature and dissolved oxygen on cathodic dissolution of Fe₃O₄ in EDTA solution. *Denki Kagaku* 52(1984) 678
- SCHIRALDI, A., BALDINI, P., SAMANNI, G., GARDENAL, M. (Univ. Pavia Dipartimento Chim. Fis. 1-27100 Pavia, Italy): DTA Traces of epoxy resins and composites-effect of fibers on the polymerization kinetics. *J. Thermal Anal.* 29(1984) 645
- SCHLEGEL, H. B. (Wayne State Univ. Dept. Chem. Detroit, MI 48202, USA): Heats of formation of fluorine-substituted silylenes, silyl radicals and silanes. *J. Phys. Chem.* 88(1984) 6254
- SCHNEIDER, H. A. (Univ. Freiburg, Inst. Makromolek. Chem. Hermann Staudinger Hans, Stefan Meier Str. 31 D-7800 Freiburg, Fed. Rep. Ger.): The quantitative evaluation of TG-curves of polymers. *Thermochim. Acta* 83(1985) 59
- SCHULSON, E. M. (Dartmouth Coll. Thayer Sch. Engr. Hanover, NH, 03755, USA): Comments on "Does the strength of ice depend on grain size at high temperatures?" *Scr. Metall.* 18(1984) 1439
- SCHWEIZER, R. J., MENKE, K., ROTH, S. (Max Planck Inst. Festkörperforsch. Heisenberg Str. 1. D-7000 Stuttgart 80, Fed. Rep. Ger.): Thermal conductivity of polyacetylene. *J. Chem. Phys.* 81(1984) 6301
- SCOTT, S. K. (Macquarie Univ. Sch. Chem. N Ryde, NSW 2113, Australia): Thermal explosion of dispersed media. Criticality for discrete reactive particles in a reactive matrix. *J. Chem. Soc. Faraday Trans. II* 80(1984) 1555
- SEARLE, C. W. (Univ. Manitoba Dept. Phys. Winnipeg Manitoba, Canada R3T 2N2): Temperature dependence of the coercive field of SmCo₅ at high temperatures. *J. Appl. Phys.* 57(1985) 481
- SEDLMAIER, H. D., PLIETH, W. J. (Free Univ. Berlin, Inst. Phys. Chem. Taku Str. 3. D-1000 Berlin 33, Fed. Rep-Ger.): Thermodynamic and optical properties of the adsorption layers of bromide ions on gold electrodes. *J. Electroanal. Chem. Interfac.* 180(1984) 219
- SEKKINA, M. M. A., TAWFIK, A., ABDEL-AT., M. I. (Tanta Univ. Fac. Sci. Tanta, Egypt): Further investigation of semiconductivity and pyroelectricity for the development of poled and Cd-doped mercury telluride thin film in electronics and engineering. *Thermochim. Acta* 82(1984) 357
- SEMENOV, Y. V., KARAVAEV, M. M., LEONTEVA, L. G. Thermal decomposition of ferrous nitrates *Zh. Neorg. Khim. SSSR* 30(1984) 45
- SETTLE, J. L., O'HARE, P. A. G. (Argonne Natl. Lab. Argonne, IL 60439, USA): Thermochemistry of inorganic sulfur compounds-III. The standard molar enthalpy of formation at 298.15K of US_{1,992} (β -uranium disulfide) by fluorine bomb calorimetry. *J. Chem. Thermodyn.* 16(1984) 1175

- SETUA, D. K. (Indian Inst. Technol. Ctr. Rubber Technol. Kharagpur 721302 W Bengal, India): Temperature dependence of the tear strength of short silk fibre reinforced rubber composites. *Polym. Commun.* 25 (1984) 345
- SEVERINI, F., GALLO, R. (Univ. Messina Ist. Chim. Organ I-98100, Messina, Italy): Differential scanning calorimetry study of thermal decomposition of benzoyl peroxide and 2,2'-azobis-isobutyronitrile mixtures. *J. Thermal Anal.* 29 (1984) 561
- SHARMA, S. N., WEISS, A. (TH Darmstadt, Inst. Phys. Chem. Phys. Chem. 3 Petersen str. 20 D-6100 Darmstadt, Fed. Rep. Ger.): Thermal and X-ray investigation of the quasi-binary system $Ag_{1-x}Pd_xMg$ ($0 \leq x < 0.5$). *J. Less-Common Metals* 104 (1984) L5
- SHELKE, D. N. (Marathwada Univ. Dept. Chem. Aurangabad 431004, Maharashtra, India): Thermodynamics of complex formation between neodymium(III) and carboxymethylethiosuccinic acid and equilibrium study of mixed complexes with simple and substituted dicarboxylic acids. *J. Indian Chem. Soc.* 61(1984) 590
- SHEPHERD, J. P., KOENITZER, J. W., ARAGON, R., SANDBERG, C. J., HONIG, J. M. (Kodak Res. Labs. Kodak PK Rochester NY 14650, USA): Heat capacity studies on single crystal, annealed Fe_3O_4 . *Phys. Rev. B-Condensed Matter* 31 (1985) 1107
- SHIELDS, J. E., LOWELL, S. (Quantachrome Corp. 6 Aerial Way, Syosset NY, 11791, USA): Method for the determination of ambient temperature adsorption of gases on porous materials. *J. Colloid Interface Sci.* 103(1985) 226
- SHIMO, T., SOMEKAWA, K., SATO, M., KAMAMOTO, S. (Kagoshima Univ. Fac. Engr. Dept. Appl. Chem. Kagoshima 890, Japan): Thermal and photoaddition reactions of methyl 2-pyrone-5-carboxylate with unsaturated compounds. *Nippon Kagaku Kaishi* 12(1984) 1927
- SHIMURA, M., KISHI, H., BABA, H. (Tokyo Metropolitan Univ. Fac. Engr. Dept. Ind. Chem. 2 Fukazawa Setagaya KU, Tokyo 158, Japan): Temperature dependence of dark conductivity for β -metal-free phthalocyanine sublimed films. *Denki Kagaku* 52 (1984) 767
- SHIRAFUJI, J., KUWAGAKI, M., SATO, T., INUISHI, Y. (Osaka Univ. Fac. Engr. Dept. Elect. Engr. Suita, Osaka 565, Japan): Effect of substrate temperature on properties of glow discharged hydrogenated amorphous silicon. *Jpn. J. Appl. Phys Pt I*, 23 (1984) 1278
- SHISHKIN, Y. L. (VI Lenin State Teachers Inst. Dept. Phys. and Analyt. Chem. Moscow, USSR): Effect of the internal thermal resistance of the sample holder on the accuracy of differential thermal analysis. *J. Thermal Anal.* 29 (1984) 503
- SHOPOV, I. (Bulgarian Acad. Sci. Cent. Polymer Lab. BU-1113 Sofia, Bulgaria): On the mechanism of inhibition of thermal and thermooxidative degradation of polymers by polyarylenealkylenes and polymeric hydrocarbons. *Vysokomol. Soedin. Ser. A SSSR* 27 (1985) 192
- SHPIL'RAIN, É. É., KAGAN, D. N., VTYANOV, S. N. (Acad. Sci. USSR, Inst. High Temp. Moscow V-71, USSR): Thermodynamic functions of barium in the temperature range 298.15-2200°K. *High. Temp.-Engl. Tr.* 22(1984) 391
- SIVELL, A., BEECKMANS, J. M., WEBSTER, A. R. (Univ. Western Ontario, Fac. Engr. Sci. London, Ontario Canada, N6A 589): Ultrarapid pyrolysis of biomass using an electrical discharge. *J. Anal. Appl. Pyrol.* 7(1984) 185
- SKIBINA, L. V., ILLICHEV, Y. YA., CHERNIK, M. M., POPOV, V. P. (Acad. Sci. UKSSR, Inst. Low Temp. Engr. Phys. Khar'kov 108, UKSSR): Thermal expansion of the austenitic stainless steel and titanium alloys in the temperature range 5-300K. *Cryogenics* 25(1985) 31
- SKOROPANOV, A. S., KIZINA, T. A., BULGAK, I. A., VECHER, A. A., NOVIKOV, Y. N., VOLPIN, M. E.: Study of thermal stabilities of graphite layered compounds with

- copper(II) chlorides. *Zh. Neorg. Khim. SSSR* 29 (1984) 2728
- SOKOLOVSKII, A. E., BAEV, A. K. (SM Kirov Technol. Inst. Minsk BESSR): Thermodynamic study of the process of butyl organozinc compound evaporation. *Zh. Fiz. Khim. SSSR* 58 (1984) 2692
- SOLBERG, J. K., THON, H. (Univ. Trondheim, Norwegian Inst. Technol. Div. Phys. Met. N-7034): The influence of temperature cycling on the creep properties of Nickel 201 and inconel 600 in combustion gas. *J. Mater. Sci.* 19(1984) 3908
- SOLLI, H., BJORØY, M., LEPLAT, P., HALL, K. (Univ. Oslo Dept. Feol. Oslo, Norway): Analysis of organic matter in small rock samples using combined thermal extraction and pyrolysis gas chromatography. *J. Anal. Appl. Pyrol.* 7(1984) 101
- SOLTER, H. J. (Fraunhofer Inst. Appl. Mat. Res. Bremen, Fed. Rep. Ger.): Presentation of an instation measurement method for determination of the material properties thermal diffusivity and specific heat. *Thermochim. Acta* 83(1985) 125
- SOMIYA, S., YOSHIMURA, M., TORAYA, H. (Tokyo, Inst. Technol. Engr. Mat. Res. Lab. Yokohama, Kanagawa 227, Japan): Reactions of titanium metal powders with high-temperature high-pressure ammonia. *J. Mater. Sci. Lett.* 4(1985) 94
- SOROKA, P. I., PARKHOMENKO, N. V., PARKHOMENKO, V. D. (FE Dzerhinskii Chem. Technol. Inst. Dnepropetrovsk, UKSSR): A study of the processing kinetics of dispersed solutions of mixtures of iron, manganese and zinc sulfates in high-temperature heat transfer agent. *High Energ. Chem - Engl. Tr.* 18 (1984) 219
- SOTNIKOVA-YUZHNIK, V. A., PRODAN, E. A., POPOVA, T. I. (Acad. Sci. BESSR, Inst. Gen. and Inorgan. Chem. Minsk BESSR): Thermal conversion of hydrated sodium triphosphate peroxyhydrate. *Inorg. Mater-Engl. Tr.* 20(1984) 547
- SRIVASTAVA, P. C., BANERJI, K. C. (Projects and Dev. India Ltd. Phys. Res. Wing Sindri 828122, India): Synthesis and characterization of mixed-ligand complexes of nickel(II) with 5,5'-thiodisalicic acid and amines. *Thermochim. Acta* 82(1984) 335
- SRIVASTAVA, R. C., RAMAKRISHNAN, P. (Birla Inst. Technol. and Sci. Dept. Chem. Pilani 333031, Rajasthan, India): Network thermodynamic modelling of chemical reactions. *Indian J. Chem. Sect. A* 23 (1984) 887
- STEPANOVA, N. A., EGOROV, F. K., KATKOVA, T. M., EVDOKIMOV, A. V. (Lensovet Technol. Inst. Leningrad, USSR): Thermal stability of silica impregnated with bis(tributyltin)oxide. *J. Appl. Chem. Engl. Tr.* 57(1984) 632
- STERN, J. H., SWANSON, L. P.: (Calif State Univ. Long Beach Dept. Chem. Long Beach, CA 90840 USA): Thermodynamics of nucleoside-solvent interactions. Uridine and cytidine in pure water and in 3 m ethanol between 17 and 37 °C. *J. Chem. Eng. Data* 30(1985) 61
- STEUDEL, R., PASSLACK-STEPHAN, S., MOLDT, G. (Tech. Univ. Berlin, Inst. Inorgan. and Analyt. Chem. Sekr. C2, D-1000 Berlin 12, Fed. Rep. Ger.): Thermal polymerization and depolymerization reactions of 10 sulfur allotropes studied by HPLC and DSC. *Z. Anorg. Allg. Chem.* 517(1984) 7
- STREPCHENKO, S. S., BONDAR, G. V., TESTOVA, N. A., LUN'KINA, G. B., IGUMENOV, V. T.: Thermodynamic analysis of interactions in the system In-As-Sb-Cl-H and preparation of epitaxial InAs_{1-x}Sb_x layers. *Inorg. Mater. Engl. Tr.* 20(1984) 308
- STILLINGER, F. H., WEBER, T. A. (AT and T Bell Labs. Murray Hill NJ 07974, USA): Point defects in bec crystals: structures transition kinetics, and melting implications. *J. Chem. Phys.* 81(1984) 5095
- STUKALO, V. A., NESHCHIMENKO, N. Ya., BATALIN, G. I., GALINICH, V. I. (TG Shevchenko State Univ. Kiev UKSSR): Thermodynamic properties of melts in the SiO₂-MnO system. *Inorg. Mater-Engl. Tr.* 20(1984) 700

- SUBRAMANIAN, P. R., SMITH, J. F. (Ames Lab. Ames IA 50011, USA): Thermodynamics of formation of Y-Fe alloys. *Calphad* 8(1984) 295
- SUBRAMANIAN, R., DUPRÉ, D. B. (Univ. Louisville, Dept. Chem. Louisville, KY 40292, USA): Thermally induced cholesteric-isotropic in lyotropic polypeptide liquid crystals. *J. Polym. Sci. Polym. Phys. Ed.* 22(1984) 2207
- SUZUKI, A., KOIZUMI, M., DOYAMA, M. (Yokohama Natl. Univ. Fac. Engn. Dept. Met. Engn. Tokiwadai 156, Hodogaya KU, Yokohama Kanagawa 240, Japan): Thermal evidences for successive CDW phase transition in IT-TaS₂. *Solid State Commun.* 53 (1985) 201
- SUZUKI, A., NISHIMIYA, N. (Natl. Chem. Lab. Ind. Yatabe, Ibaraki 305, Japan): Thermodynamic properties of Zr(Ni_xMn_{1-x})H₂ systems. *Mater. Res. Bull.* 19(1984) 1559
- SUZUKI, A., OIKAWA, H., MURAKAMI, K. (Tohoku Univ. Chem. Res. Inst. Nonaquous Solut. Sendai, Miyagi 980, Japan): Temperature dependence of birefringence and stress for natural rubber vulcanizates and strained state. *Polymer* 26 (1985) 247
- SUZUKI, A., OIKAWA, H., MURAKAMI, K. (Tohoku Univ. Chem. Res. Inst. Nonaquous Solut. Sendai, Miyagi 980 Japan): Temperature dependence of birefringence for strained natural rubber vulcanizates. *Polymer* 26(1985) 97
- SVAAN, M., PARKER, V. D. (Univ. Trondheim, Norwegian Inst. Technol. Organ. Chem. Lab. N-7034 Trondheim, Norway): Temperature effects on electrode processes. V. Effects of changing the ionic environment on the entropy of formation of ion radicals in acetonitrile. *Acta Chem. Scand. Ser. B.* 38(1984) 751
- SVAAN, M., PARKER, V. D. (Univ. Trondheim, Norwegian Inst. Technol. Organ. Chem. Lab. N-7034 Trondheim, Norway): Temperature effects on electrode processes VII. The effects of solvent and electrolyte on the relative entropies of formation of doubly and singly charged ions of organic compounds. *Acta Chem. Scand. Ser. B* 38 (1984) 767
- SVAAN, M., PARKER, V. D. (Univ. Trondheim, Norwegian Inst. Technol. Organ. Chem. Lab. N-7034 Trondheim, Norway): Temperature effects on electrode processes VI. Solvent effect on the entropies and reversible potentials for the formation of ion radicals of organic compounds. *Acta Chem. Scand. Ser. B* 38 (1984) 759
- SYCHEV, M. M., YUKHNOVA, O. G. (Leningrad Technol. Inst. Leningrad, USSR): Thermal conversion of inorganic chromium polymers and binders derived from them. *Inorg. Mater. Engl. Tr.* 20 (1984) 447
- SZEKELY, A., HANSON, R. K., BOWMAN, C. T. (Stanford Univ. Dept. Mech. Engn. High Temp. Gasdynam. Lab. Stanford, CA 94305, USA): High temperature determination of the rate coefficient for the reaction H₂O+CN→HCN+OH. *Int. J. Chem. Kinet.* 16 (1984) 1609
- SZPILKA, A. M. (Cornell Univ. Baker Lab. Ithaca, NY, 14853, USA): Low temperature phase diagram of the ANNNI model in a magnetic field. *J. Phys.-C-Solid State Phys.* 18(1985) 569
- TAKAHASHI, T. (Tokyo Inst. Technol. Tokyo 152, Japan): Solid copper(I) ion conductors (Review). *J. Electroanal. Chem. Interfac.* 180(1984) 231
- TAKEDA Y. I., KINJO, N., NARAHARA, T. (Hitachi Ltd, Hitachi Res. Lab. 4026 Kuji Cho, Hitachi 31912, Japan): Thermally stimulated current in aluminium phthalocyanine chloride film. *J. Mater. Sci. Lett.* 4(1985) 86
- TAKAGISHI, T., SUGIMOTO, T., HAMANO, H. LIM, Y. J., KUROKI, N., KOZUKA, H. (Univ. Osaka Prefecture, Coll. Engn. Dept. Appl. Chem. Sakai Osaka 591, Japan): Thermodynamics of binding of methyl, orange by crosslinked vinylpyrrolidone-divinylbenzene copolymers: template effect. *J. Polym. Sci. Polym. Chem. Ed.* 22 (1984) 4035

- TAKENAGA, M., YAMAGATA, K. (Sci. Univ. Tokyo, Fac. Sci. Dept. Appl. Phys. Shinyuku Ku, Tokyo 162, Japan): Dependence of degree of crystallinity and melting point on time and temperature of annealing for γ -irradiated polytetrafluoroethylene. *J. Polym. Sci. Polym. Phys. Ed.* 23 (1985) 149
- TANGANOV, B. B. (E Siberian Technol. Inst. Ulan Ude, USSR): Analysis of thermodynamic constant of tetrabasic acid dissociation in non aqueous medium. *Zh. Fiz. Khim. SSSR* 58 (1984) 2849
- TATISCHEV, A. S., ERSHOV, V. A., SMORODINA, T. P.: X-ray diffraction study of changes of structure of anthracites after heat treatment in a current nitrogen. *J. Appl. Chem.-Engl. Tr.* 57 (1984) 1121
- TELLINGHUISEN, J., WHYTE, A. R., PHILLIPS, L. F. (Vanderbilt Univ. Dept. Chem. Nashville, TN Egypt): Kinetic of I_2 following ArF laser excitation: thermal dissociation of $A'(Zn)$ state. *J. Phys. Chem.* 88 (1984) 6084
- TOMISKA, J. (Vienna Univ. Inst. Phys. Chem. Währinger Str. 42, A-1090 Vienna, Austria): Mathematical conversion of the thermodynamic excess functions represented by the Redlich-Kister expansion, and by the Chebyshev polynomial series to power series representations and vice-versa. *Calphad* 8 (1984) 283
- TOMITA, Y., OKABAYASHI, K. (Univ. Osaka Prefecture, Coll. Engr. Dept. Met. Engr. 4-804 Mozu, Unemachi, Sakai Osaka 591, Japan): Modified heat treatment for lower temperature improvement of the mechanical properties of two ultrahigh strength low alloy steels. *Met. Trans. A. Phys. Met. Mater. Sci.* 16 (1985) 84
- TOMITA, Y., OKABAYASHI, K. (Univ. Osaka, Prefecture, Coll. Engr. Dept. Met. Engr. 4-804 Mozu Umemachi, Sakai Osaka 591, Japan): Low temperature improvement of the mechanical properties of type 4340 Ultrahigh strength steel with heat treating techniques using interrupted quenching method. *Met. Trans A-Phys. Met. Mater. Sci.* 15 (1984) 2247
- TORTONDA, J. B., REAL CABEZOS, J. A., MARTINEZ TOMAYO, E. (Univ. Valencia Dept. Inorgan. Chem. Valencia, Spain): Study of the thermal decomposition of bromazepan complexes with Co(II), Ni(II), Cu(II) and Zn(II). *Thermochim. Acta* 81 (1984) 231
- TOU, J. C. (Dow Chem. Co. Analyt. Labs. Midland, MI48640, USA): Thermal analysis of the pyrolytic behaviors of a highly crosslinked polymer. *J. Polym. Sci. Polym. Chem. Ed.* 22 (1984) 3851
- TROMP, P. J. J., CORDFUNKE, E. H. P. (Univ. Amsterdam, Inst. Chem. Technol. 1018 TV Amsterdam, Netherlands): A thermochemical study of the ractive intermediate in the alkali-catalyzed carbon gasification II. Alkali metal vapour pressures. *Thermochim. Acta* 81 (1984) 113
- TURCHANIN, A. G. (Kramatorsk, Ind. Inst. Kramatorsk UKSSR): Equations for the enthalpy and specific heat of hafnium carbide as functions of temperature and concentration in the homogeneity region. *Inorg. Mater-Engl. Tr.* 20 (1984) 739
- TURCHANIN, A. G., MITROFANOV, B. U., IVENKO, N. V., BABENKO, S. A. (Kramatorsk Ind. Inst. Kramatorsk, USSR): Influence of coupled oxygen on enthalpy and thermal capacity of titanium carbonitrides in the 298-1500K range. *Zh. Fiz. Khim. SSSR* 58/1984/2933
- USTYNYUK, N. A., VINOGRADOVA, V. N., KORNEVA, V. N., KRAVTSOV, D. N., ANDRIANOV, V. G., STRUCHKOV, YU, T. (AN Nesmeyanov Organoelement CPDS Inst. 28 Varilov St. Moscow 117813, USSR): Thermal decomposition of (η -cyclopentadienyl) tricarbonyl (α -phenyl-ethynyl) molybdenum and molecular structure of molybdenum binuclear complex with bridging 1,4-diphenylhitadyne ligand [(η -C₅H₅) (CO)₂Mo] (η 1,2- η -C₆H₅C \equiv C-C \equiv CC₆H₅). *J. Organometal. Chem.* 277 (1984) 285
- UZUNOV, I. M., KLISSURSKI, D. G. (Bulgarian Acad. Sci. Inst. Gen. and Inorgan.

- Chem. BU-1040 Sofia, Bulgaria): A thermogravimetric study of the decomposition of basic copper carbonate. *Thermochim. Acta* 81(1984) 353
- VALENTIN, J. P. (Univ. Franche Comte, Ecole Natl. Super Mecan. and Mikrotech F-25030 Besançon, France): Thermal gradient distributions in trapped energy quartz resonators. *J. Appl. Phys.* 57 (1985) 492
- VANCHINSYAN, Y. Y., DOLBNEVA, T. N., DIKII, M. A., CHUCHMAREV, S. K. (Lvov Polytech. Inst. Lvov, UKSSR): Thermochemistry of isopropylbenzene and paradisopropylbenzene derivatives. *Zh. Fiz. Khim. SSSR* 58 (1984) 2937
- VANDENBOSCH, A., VAN SUMMEREN, J. (Cen. Sck. Dept. Mat. Sci. 8-2400 Mol, Belgium): On the precision of a susceptibility apparatus as deduced from measurements on superconducting vanadium. *Thermochim. Acta* 82 (1984) 51
- VANDERPLAATS, G., SOONS, H., CHERMIN, H. A. G. (Dutch State Min. Coal Res. Off. POB 18, 6160, MD Geleen, Netherlands): Low-temperature oxidation of coal. *Thermochim. Acta* 82 (1984) 131
- VAN DER VEEN, R. H., CERFONTAIN, H. (Organ. Chem. Lab. Nieuwe Achtergracht 129, 1018 WS Amsterdam, Netherlands): Temperature-dependent alkylation of γ -phenyl β,γ -unsaturated acid and ester systems in hexamethyl-phosphor-triamide-tetrahydrofuran solutions using lithium diisopropylamide. *J. Org. Chem.* 50 (1985) 342
- VAN HOUTEN, H., MAZUR, E., BEENAKKER, J. J. M. (Leiden State Univ. Huygens Lab. 2312 AV Leiden, Netherlands): The temperature dependence of flow birefringence in gases and the scalar factor of angular momentum polarization in viscous flow. *Chem. Phys. Lett.* 113 (1985) 135
- VARFÓFOMEV, M. B., IVANOVA, E. D., LUNK, K. I., KHILMER, V., SHAMRAI, N. B. (MV Lomonosov Fine Chem. Technol. Inst. Moscow, USSR): Thermal stability of free $\text{Ln}(\text{ReO}_4)_3 \cdot 4\text{H}_2\text{O}$ perhenate tetrahydrates. *Zh. Neorg. Khim. SSSR* 29 (1984) 2995
- VARGA, J., MENCZEL, J., SHOLTY, A. (Tech. Univ. Budapest H-1521, Budapest): A calorimetric study of crystallization and melting of polypropylene. *Vysokomol. Soedin. Ser. A SSSR* 26 (1984) 2467
- VARSHNEY, R. K., SHANKER, J. (MB Gout. Postgrad. Coll. Dept. Phys. Haldweini 263141 Uttar Pradesh, India): Temperature dependence of third-order elastic constants of CsCl, CsBr, and CsI crystals. *Phys. Status Solidi B-Basic Re.* 126 (1984) 77
- VASILEV, V. A., LARKOV, A. P., KRUCHINA, T. I. (DI Mendeleev Chem. Technol. Inst. Novomoskovsk, USSR): Heat capacity and density of K_2CrO_4 aqueous solutions at 298.15K, the bond with peculiarities of CrO_4^{2-} (2-)ion hydration. *Zh. Fiz. Khim. SSSR* 58 (1984) 2762
- VASILEV, V. P. (Ivanovo Chem. Technol. Inst. Ivanovo, USSR): Temperature sensitive and insensitive component thermodynamic characteristics of complex formation reactions. *Zh. Neorg. Khim. SSSR* 30(1985) 3
- VASILEV, V. P., KUTUROV, M. V., KOCHERGINA, L. A., UGAROVA, M. V. (Ivanovo Chem. Technol. Inst. Ivanovo, USSR): Thermodynamics of reactions of nickel(II) ions with iminodiacetic acid complex formations. *Zh. Neorg. Khim. SSSR* 29(1984) 3070
- VASILEV, V. P., RAMENSKAYA, L. M. (Ivanovo Chem. Technol. Inst-Ivanovo, USSR): Thermochemistry of cobalt(II) iminoacetate complex in aqueous solutions. *Zh. Neorg. Khim. SSSR* 29(1984) 3079
- VASILEV, V. P., SHOROKHOVA, V. I., RASKOVA, O. G., KLEPIKOVA, L. I. (Ivanovo, USSR): Thermodynamic properties of antimony(III) in hydrochloride solutions. *Zh. Fiz. Khim. SSSR* 58 (1984) 2700
- VASILEV, V. P., VOROBEV, P. N., YASHKOVA, V. I. (Ivanovo Chem. Technol. Inst. Ivanovo, USSR): Standard enthalpy of germanium tetrachloride solution forma-

- tions in mineral acids. *Zh. Neorg. Khim. SSSR* 30(1985) 9
- VAZHEV, V. V. (VI Lenin State Teachers Inst. Moscow, USSR): Thermodynamic possibilities and conditions of memory effect appearance in adsorption and catalysis. *Zh. Fiz. Khim. SSSR* 58(1984) 2783
- VERHOEFF, J., VANDENBERG, P. J. (TNO Prins Maurits Lab. POB 45, 2280 AA Ruswijk, Netherlands): Thermal runaway in the thermal explosion of a liquid. *J. Thermal Anal.* 29(1984) 533
- VIGDOROVICH, E. N., KOTASHEVSKII, V. A., PASHINKIN, A. S.: Thermodynamic analysis of the process of deposition of gallium arsenidephosphide solid solutions, using partial pressure diagrams. *Inorg. Mater-Engl. Tr.* 20(1984) 629
- VISIC, M., MEKJAVIC, I. (Univ. Split. Fac. Technol. Phys. Chem. Lab. Teslina 10, CS-58000 Split, Yugoslavia): Thermodynamics of zinc chloride in 2-propanol-water mixtures (10, 30 and 50 mass per cent) from electromotive force measurements. *Zh. Phys. Chem. Leipzig.* 265(1984) 1236
- VOLKOVA, N. F., KAUL', A. R., OLEINIKOV, N. N., TRET'YAKOV, YU. D. (MV Lomonosov State, Univ. Moscow 117234, USSR): Thermodynamics and kinetics of solid phase exchange reactions between sodium polyaluminate and lithium and silver sulfates. *Inorg. Mater-Engl. Tr.* 20 (1984) 879
- VOLOKHONSKAYA, M. M., KOPYLOV, V. B., SOROKIN, O. S., GREBENNIKOV, S. F. (SM Kirov Text. and Light Ind. Inst. Leningrad, USSR): Thermomechanical properties and porous-structure parameters of composite materials based on phenylon. *J. Appl. Chem.-Engl. Tr.* 57 (1984) 1093
- VON HIPPEL, P. H., FAIRFIELD, F. R. (Univ. Oregon Inst. Molec. Biol. Eugene OR-97403 USA): Thermodynamic aspects of the regulation of protein synthesis in bacteria. *Pure Appl. Chem.* 57(1984) 45
- VOROBEV, A. F., SARKISOV, L. S. (MV Lomonosov State Univ. Moscow 117234, USSR): Thermochemistry of potassium iodide - dimethylformamide - formamide - water quaternary liquid system. *Zh. Fiz. Khim. SSSR* 58(1984) 2653
- VRAHOPOULOV-GILBERT, E., McHUGH, A. J. (Univ. Illinois Dept. Chem. Engr. Urbana IL 61801, USA): Thermodynamics of flow-induced phase separation in polymers *Macromolecules* 17(1984) 2657
- VUORI, A., KARINEN, T., BRENDERG, J. B. (Helsinki Univ. Technol. Dept. Chem. SF-02150 Espo 15, Finland): Thermolysis of anisole. *Finn. Chem. Lett.* 4-5 (1984) 89
- WALSH, D. J., ROSTAMI, S., SINGH, V. B. (Univ. London Imperial Coll. Sci. and Technol. Dept. Chem. Engr. and Chem. Technol. London SW7 2AZ, England): The thermodynamics of polyether sulfone-poly-(ethylene oxide) mixtures. *Makromol. Chem.-Macro. Chem. Phys.* 186 (1985) 145
- WARD, J. R., SEIDERS, R. P. (USA Ctr. Chem. Res. and Dev. Div. Res. Aberdeen Proving Ground, MD 21010 USA): On the activation energy for the hydrolysis of bis - (2 - chloroethyl)sulfide. *Thermochim. Acta* 81(1984) 343
- WEST, D. B., STRAUSS, H. L. (Univ. Calif. Berkeley, Dept. Chem. Berkeley CA, 94720, USA): Analysis of a phase transition at 134K in decanoic acid by infrared spectroscopy. *J. Phys. Chem.* 88 (1984) 6644
- WHALEN, J. W. (Univ. Texas, Dept. Chem. El Paso, TX 79968, USA): A model for the free energy of adsorption on low energy surfaces. *Thermochim. Acta* 82 (1984) 179
- WIEDEMANN, H. G., BAYER, G. (Mettler Instrumente AG. CH-8606 Grengensee, Switzerland): Liquid crystals, DSC and thermomicroscopic investigations. *Thermochim. Acta* 83(1985) 153
- WIEDERHOLT, E. (Berg. Univ. Gesamthoch Wuppertal Gauss Str. 20, D-5600 Wuppertal 1. Fed. Rep. Ger.): DTA in a simple apparatus for teaching purposes. *Thermochim. Acta* 83(1985) 113

- WILLEMS, H. H., VANDERVELDEN, K. B. (Eindhoven Univ. Technol. Dept. Architecture Bldg and Planning POB 513 5600 MB Eindhoven, Netherlands): A gravimetric study of water vapour sorption on hydrated cement pastes. *Thermochim. Acta* 82 (1984) 211
- WILLIAMS, R. K., SIMARD, M. A., JOLICOEUR, C. (Univ. Sherbrooke Dept. Chim. Sherbrooke, Quebec, Canada, JIK 2R1): Volume changes for thermally induced transitions of block copolymers of propylene oxide and ethylene oxide in aqueous solution as model systems for hydrophobic interaction. *J. Phys. Chem.* 89(1985) 178
- WU, Q., GÖBÖLÖS, S., GRANGE, P., DELANAY, F. (Catholic Univ. Louvain, Phys. Chim. Minerale and Catalyse GRP. 8-1348 Louvain La Neuve, Belgium): Characterization of unsupported CoMo sulfide catalysts and their precursors by temperature-programmed reactions. *Thermochim. Acta* 81(1984) 281
- WUNDERLICH, B. (Rensselaer Polytech. Inst. Dept. Chem. Troy, NY 12181, USA): Trends in thermal analysis. *Thermochim. Acta* 83(1985) 35
- YEL'YASHEVICH, G. K., PASHKOVSKII, YE. E., BARANOV, V. G., BILIBIN, A. YU., SKOROKHODOV, S. S. (Acad. Sci. USSR, Inst. Macromolec. CPDS Leningrad, USSR): Dependence of thermodynamic characteristics of polydecamethylene terephthaloyl-dip-oxybenzoate on molecular mass. *Vysokomol. Soedin. Ser. B. SSSR* 26(1984) 911
- YOSHIKI, H. (KEK Natl. Lab. High Energy Phys. Tsukuba 305 Ibaraki, Japan): Simple thermo-level meter for He I, and He II by a dynamic method. *Cryogenics* 24 (1984) 704
- YOUKHANNA, Y. D., JASIM, F. (Univ. Baghdad Coll. Sci. Dept. Chem. Baghdad, Iraq): Investigations of $\text{Ho}_2\text{O}_3-\text{X}_2\text{S}_2\text{O}_8$ and $\text{Tm}_2\text{O}_3-\text{X}_2\text{S}_2\text{O}_8$ (X=Na, K) binary systems by high temperature derivatography. *Thermochim. Acta* 81(1984) 261
- ZALUKAEV, V. L., GORBUNOV, V. E., SHARPATAYA, G. A., GAVRICHEV, K. S., (NS Kurnakov Gen. and Inorgan. Chem. Inst. Moscow, USSR): Thermal capacity and thermodynamic properties of cesium perchlorate. *Zh. Neorg. Khim. SSSR* 29 (1984) 3005
- ZEMAN, S., DIMUH, M., KABÁTOVA, V., TRUCHLIK, S., TRUCHLIK, S. (Chemko, Dept. Res. CS-07222 Strazske Czechoslovakia): Correlation of activation energies of low-temperature thermolysis and photolysis of some fulminates with their heats explosion. *Thermochim. Acta* 81 (1984) 359
- ZINOVIK, M. A.: Classification of spinel oxides according to the value of partial enthalpy of oxygen solutions. *Zh. Fiz. Khim. SSSR* 58(1984) 2679
- ZINOVIK, M. A., KURYSHEVA, M. V.: Thermodynamics of copper-containing ferrosinzel reduction. *Zh. Fiz. Khim. SSSR* 58(1984) 2675
- ZUBAREV, P. V., DZHALANDINOV, D. N., BELOUSENKO, A. P., MURAVICH, B. L., RYSTSOV, V. N., DEMENT'EV, L. N., ANUFRIENKO, A. K.: High-temperature compressive strength and creep of scandium oxide. *Inorg. Mater-Engl. Tr.* 20 (1984) 527
- ZUNDEL, G., FRITSCH, J. (Univ. Munich Inst. Phys. Chem. D-8000 Munich 2, Fed. Rep. Ger.): Environmental interaction of hydrogen bonds showing a large proton polarizability. Molecular processes and the thermodynamics of acid dissociation. *J. Phys. Chem.* 88(1984) 6295