

## Bibliography Section

---

- ABDELKADER, M. M., TAHA, S., ELAKABBANY, F., ABOSEHLY, A. M., TAHOON, K. K., ELSHARKAWY, A. A. (Univ. Cairo, Fac. Sci., Dept. Phys., Giza Egypt) Electrical and calorimetric properties of sodium hydrogen tartrate monohydrate **Thermochim. Acta** **195** (1992) **313**
- ACEVEDO, I. L., ARANCIBIA, E. L., KATZ, M. (Univ. Nacl. Tucuman, Fac. Cien. Exact. Tecnol., Inst. Ingn. Quim., Catedra Fisicoquim., RA-4000 Tucuman Argentian) Excess viscosities and thermodynamics of viscous flow of normal -butyl-1-butanamine with chloroalkanes at 298.15 K **Thermochim. Acta** **195** (1992) **129**
- ADDINK, A. D. F., VANDENTHILLART, G., SMIT, H., VANWAVERSVELD, J. (Leiden Univ., Gorlaeus Labs, Dept. Anom. Physiol., POB 9502, 2300 RA Leiden Netherlands) A novel 1 liter flow-through calorimeter for heat production measurements on aquatic animals without stress **Thermochim. Acta** **193** (1991) **41**
- AFZAL, M., KHAN, M., AHMAD, H. (Quaid I. Azam Univ., Dept. Chem., Islamabad Pakistan) Heats of adsorption of chromatographic silica gel **J. Chem. Soc. Pakistan** **13** (1991) **157**
- AHMED, A. (Jahangirnagar Univ., Dept. Chem., Savar Bangladesh) Thermal sigmatropic rearrangement of 9-exo-vinyl-9-2,4,7-triene **Indian J. Chem. Sec. B** **31** (1992) **63**
- AIROLDI, C., DIGIAMPIETRI, E. A. (Univ. Estadual Campinas, Inst. Quim., Caixa Postal 6154, BR-13081 Campinas SP Brazil) Thioamide adducts of zinc-group chlorides. A thermochemical study **J. Chem. Thermodyn.** **24** (1992) **33**
- AIRALDI, C., GONCALVES, L. J. (Univ. Estadual Campinas, Inst. Quim., Caixa Postal 6154, BR-13081 Campinas SP Brazil) Standard molar enthalpies of formation of some crystalline amine N-oxides **Thermochim. Acta** **194** (1992) **259**
- ALEMAN, H., LIELMEZS, J. (Univ. British Columbia, Dept. Chem. Engn., Vancouver BC Canada V6T 1W5) Ideal gas state thermodynamic functions for halogenated disiloxanes (SiCl<sub>3</sub>)<sub>2</sub>O and (SiF<sub>3</sub>)<sub>2</sub>O **Thermochim. Acta** **194** (1992) **87**
- ALMAYDAMA, H. M. A., GARDNER, P. J., MCARA, I. W. (Univ. London Royal Holloway Bedford New Coll., Dept. Chem., Egham TW20 OEX Surrey England) The standard enthalpies of formation of zinc orthophosphate and its hydrates **Thermochim. Acta** **194** (1992) **117**
- ANTONOV, A. V., GUSEV, M. Y., LYSAK, V. V., NEUSTROEV, N. S., SAVCHENKO, S. N. (Kiev Polytech. Inst., Kiev Ukraine USSR) Thermomagnetic record in Bi-substituted garnets epitaxial films **Zh. Tekn. Fis. SSSR** **61** (1991) **137**
- AZAD, A. M., SUDHA, R., SREEDHARAN, O. M. (Indira Gandhi Ctr. Atom Res., Div. Met., Kalpakkam 603102 India) The standard Gibbs energies of formation of ACrO<sub>4</sub> (A = Ca, Sr or Ba) from EMF measurements **Thermochim. Acta** **194** (1992) **129**
- BAABOR, J., DELGADO, E. J. (Concepcion Univ., Fac. Sci., Dept. Chem., Casilla 3C, Concepcion Chile) Irreversible thermodynamics of electrolyte solutions. 3. Aqueous LiCl, NaCl and KCl solutions at

- 35 degrees C *Bol. Soc. Chilena Quim.* **36** (1991) 217
- BALAZ, P., HUHN, H. J., HEEGN, M. (Slovak Acad. Sci., Inst. Min., CS-04353 Kosice Czechoslovakia) Differential thermal analysis of mechanically activated sphalerite *Thermochim. Acta* **194** (1991) 189
- BALEK, V. (Nucl. Res. Inst., CS-25068 Rez Czechoslovakia) Emanation thermal analysis and its application potential *Thermochim. Acta* **192** (1991) 1
- BATEY, J. H. (VG Quadrupoles, Aston Way, Middlewich CW10 OHS, Cheshire England) Thermal desorption from mass spectrometer filaments *Vacuum* **43** (1992) 15
- BECUCCI, M., CASTELLUCCI, E., FOGGI, P., CALIFANO, S., DOWS, D. A. (European Lab. Nonlinear Spect., Largo E Fermi 2, I-50125 Florence Italy) Temperature dependence of vibrational relaxation processes in sulfur crystals. Effect of isotopic impurities *J. Chem. Phys.* **96** (1992) 98
- BERNES, A., CHATAIN, D., LACABANNE, C., LORENTZ, G. (Univ. Toulouse 3, Phys. Solides Lab, CNRS, Ura 74, F-31062 Toulouse France) Influence of orientation in the amorphous phase of poly(ethylene terephthalate) *Thermochim. Acta* **192** (1991) 155
- BERTHET, J., COUNIOUX, J. J. (Univ. Lyon 1, Physicochim. Min. Lab 2, CNRS, UA 116 43 Bd 11 Novembre 1918, F-69622 Villeurbanne France) Automated conductimetric analysis of solid-liquid equilibria (in French) *Thermochim. Acta* **194** (1992) 137
- BESSERGENEV, V. G., KOVALEVSKAYA, Y. A., PAUKOV, I. E., STARIKOV, M. A., OPPERMANN, H., REICHEL, W. (Acad. Sci. USSR, Inst. Inorgan. Chem., Prosp. Ac Laurentieva 3, Novosibirsk 630090 USSR) Thermodynamic properties of  $MnMoO_4$  and  $Mn_2Mo_3O_8$  *J. Chem. Thermodyn.* **24** (1991) 85
- BLUME, A. (Univ. Kaiserslautern, Fachbereich Chem., Erwin Schrodinger str., W-6750 Kaiserslautern Germany) Biological calorimetry-membranes *Thermochim. Acta* **193** (1991) 299
- BOYE, J., MARTINEZ, J. J., DEMONT, P., LACABANNE, C. (Univ. Toulouse 3, Phys. Solides Lab, CNRS, Ura 74, F-31062 Toulouse France) Molecular mobility associated with the Tg in DGEBA/Bar-DDM networks *Thermochim. Acta* **192** (1991) 147
- BREWER, L. (Univ. Calif. Berkeley, Dept. Chem., 1 Cyclotron Rd, Berkeley CA 94720 USA) Chemical thermodynamics in the future development of chemistry including environmental problems *Pure Appl. Chem.* **64** (1992) 1
- BRZYSKA, W., OZGA, W. (Marie Curie Sklodowska Univ., Fac. Chem., Dept. Inorgan. Gen. Chem., PL-20031 Lublin Poland) Thermal decomposition of Yttrium and lanthanide complexes with mephenamic acid *Thermochim. Acta* **195** (1992) 149
- BUCKTON, G., RUSSEL, S. J., BREEZER, A. E. (Univ. London, Sch. Pharm., 29-39 Brunswick SQ, London WC1N 1AX England) Pharmaceutical calorimetry. A selective review *Thermochim. Acta* **193** (1991) 195
- BUSNOT, A., MASSON, J., HEMIDY, J. F., LEQUERLER, J. F. (Univ. Caen, UFR Sci., Chim. Min. Bioinorg. Lab, Esplanade Paix, F-14032 Caen France) Study of copper(II) malates complexed with imidazole or methyl substituted imidazoles *Thermochim. Acta* **194** (1992) 265
- CAI, G. L., LIU, S. X., HUANG, J. L. (Fuzhou Univ., Inst. Struct. Chem., Fujian 350002 Peoples R China) High-temperature synthesis and structure redetermination of  $Te_4I_4$  *Acta Crystallogr.* **47** (1991) 2642
- CAILLOL, J. M. (Univ. Paris 11, CNRS, Phys. Theor. Hautes Energ. Lab, Batiment 211, F-91405 Orsay France) Structural, thermodynamic and electrical properties of polar fluids and ionic solutions on a hypersphere. Theoretical aspects *J. Chem. Phys.* **96** (1992) 1455
- CANOSAMAS, C. E., MONKS, P. S., WAYNE, R. P. (Univ. Oxford, Phys. Chem.

- Lab, S Parks Rd., Oxford OX1 3QZ England) Temperature dependence of the reaction of the nitrite radical with but-1-ene **J. Chem. Soc. Faraday Trans. 88 (1992) 11**
- CARDENAS, G., BERNAL, L., TAGLE, L. H. (Concepcion Univ., Fac. Cienc., Dept. Quim., Casilla 36, Concepcion Chile) Thermogravimetric studies of chitosan derivatives **Thermochim. Acta 195 (1992) 33**
- CARUSO, U., CENTORE, R., ROVIELLO, A., SIRIGU, A. (Naples Univ., Dip. Chim., Via Mezzocannone 4, I-80134 Naples Italy) Thermotropic and lyotropic mesomorphism in a polymeric network with low cross-link density **Macromolecules 25 (1992) 129**
- CASTRONOVO, G. (Univ. Federico 2, Dept. Chem., Via Mezzocannone 4, I-80134 Naples Italy) Proteins in aqueous solutions. Calorimetric studies and thermodynamic characterization **Thermochim. Acta 193 (1991) 363**
- CERIC, B., BUKOVEC, P. (Univ. Maribor, Fac. Tech. Sci., Smetanova 17, YU-62000 Maribor Yugoslavia) Thermal decomposition of the mixture of antimony(III) oxide and tin(II) chloride **Thermochim. Acta 195 (1992) 73**
- CHANG, C., TACKETT, J. R. (EGG Mound Appl. Technol. Inc., Miamisburg OH 45343 USA) Characterization of phenolic resins with thermogravimetry mass spectrometry **Thermochim. Acta 192 (1991) 181**
- CHARSLEY, E. L., HILL, J. O., NICHOLAS, P., WARRINGTON, S. B. (Leeds Polytech. Thermal Anal. Consultancy Serv., Leeds LS1 3ME, W Yorkshire England) An investigation of the ICTA certified reference materials for DTA as potential standards for the temperature calibration of thermomechanical analysis equipment **Thermochim. Acta 195 (1992) 65**
- CHOUDHARY, V. R., PATASKAR, S. G., PANDIT, M. Y., GUNJIKAR, V. G. (Natl. Chem. Lab, Div. Chem. Engn., Poona 411008 Maharashtra India) Influence of precipitation conditions of magnesium hydroxide on its thermal decomposition in the preparation of active MgO **Thermochim. Acta 194 (1992) 361**
- CHUNG, B. T. F., IYER, V. (Univ. Akron, Dept. Mech. Engn., Akron OH 44325 USA) Heat transfer from moving fibers in melt spinning process **J. Appl. Polym. Sci. 44 (1992) 663**
- COONEY, D., POLITIS, E. (Natl. Res. Council Canada, Ottawa Ontario Canada K1A 0R6) Thermal characteristics of the polymeric components of a CF-18 flight data recorder **Thermochim. Acta 192 (1991) 165**
- CRIADO, J. M., ORTEGA, A. (Univ. Seville, CSIC, Ctr. Mixto, Inst. Ciencia Mat., Seville Spain) A study of the influence of particle size on the thermal decomposition of CaCO<sub>3</sub> by means of constant rate thermal analysis **Thermochim. Acta 195 (1992) 163**
- CRIDDLE, R. S., BREIDENBACH, R. W., HANSEN, L. D. (Univ. Calif., Dept. biochem. Biophys., Cavis CA 95816 USA) Plant calorimetry. How to quantitatively compare apples and oranges **Thermochim. Acta 193 (1991) 67**
- CZARNECKI, J. (Cahn Instruments Inc., 16207 Carmenita Cerritos CA 90701 USA) Heat-transfer and mass-transfer approach to decomposition kinetics **Thermochim. Acta 192 (1991) 107**
- DALLEK, S., KABACOFF, L., NORR, M. (USN, Ctr. Surface Warfare, Silver Spring MD 20903 USA) Oxidation kinetics of type-2A natural diamond [100] and [111] surfaces by TG **Thermochim. Acta 192 (1991) 321**
- DAUNCEY, M. J. (AFRC, Inst. Anim. Physiol. Genet. Res., Dept. Cell Biol., Cambridge CB2 4AT England) Whole-body calorimetry in man and animals **Thermochim. Acta 193 (1991) 1**
- DAUT, J., GROSS, T., ELZINGA, G. (Tech. Univ. Munich, Inst. Physiol., Biedersteiner str. 29, W-8000 Munich 40 Germany) The contribution of the sodium pump to the basal metabolism of isolated cardiac muscle. A calorimetric study **Thermochim. Acta 193 (1991) 269**

- DELAFUENTE, I. G., RODRIGUEZ, J. F., GONDZALEZ, J. A., COBOS, J. C., CASANOVA, C. (Univ. Valladolid, Dept. Fis. Apl. 2, E-47071 Valladolid Spain) Excess molar volumes of (n-nonan-1-ol) + n-decane or n-tetradecane) at the temperatures 298.15 K, 308.15 K and 318.15 K J. **Chem. Thermodyn.** **24** (1992) 23
- CEMARCO, D., MARCHESE, A., LODYGACHRUSCINSKA, E., LINART, W. (Univ. Messina, Inst. Analyt. Chem., Salita Sperone 31, CP 30, I-98166 St. Agata Militell Italy) Thermodynamics of complex formation of Ag(I). 8. Investigations on Ag(I) thiourea thiocyanate halide systems in aqueous solution **Thermochim. Acta** **194** (1992) 297
- DEMIREL, Y., GECEGORMEZ, H., PAKSOY, H. O. (Univ. Cukurova, Fac. Art Sci., Adana 01330 Turkey) Correlation of heats of mixing data by the NRTL and UNIQUAC models. 1. Estimation of the model parameters **Thermochim. Acta** **194** (1992) 329
- DEMIREL, Y., PAKSAY, H. O., GECEGORMEZ, H. (Univ. Cukurova, Fac. Art Sci., Adana 01330 Turkey) Correlation of heats of mixing data by the NRTL and UNIQUAC models. 2. Predictions of the calorimetric properties **Thermochim. Acta** **194** (1992) 343
- DOLLIMORE, D., EVANS, T. A., LEE, Y. F. (Univ. Toledo, Dept. Chem., Toledo OH 43606 USA) Thermal decomposition of oxalates. 25. The effect of sample preparation and environmental atmosphere on the thermal stability of copper(II) oxalate **Thermochim. Acta** **194** (1992) 215
- DONIA, A. M., GOUDE, M. M., AYAD, M. I., ELBORAEY, H. A. (Menoufia Univ., Fac. Sci., Dept. Chem., Shibin Al Kawm Egypt) Thermal behaviour of some aromatic diamine complexes **Thermochim. Acta** **194** (1992) 155
- DOROFEEVA, O. V. (Acad. Sci. USSR, Inst. High Temp., Izhorskaya ul. 13-19, Moscow 127412 USSR) Ideal gas thermodynamic properties of oxygen heterocyclic compounds. 1. 3-membered, 4-membered and 5-membered rings **Thermochim. Acta** **194** (1992) 9
- DRONG, K., LAMPRECHT, I., MOTZKUS, C., SCHAARSCHMIDT, B. (Free Univ. Berlin, Inst. Biophys., Thielallee 63, W-1000 Berlin 33 Germany) Calorimetric investigations of pollution by xenobiotics **Thermochim. Acta** **193** (1991) 125
- DYDYSHKO, P. I. (All Union Railroad Transport Res. Inst., Moscow USSR) Thermoelectrokinetic phenomenon in capillary anisothermal systems **Zh. Fis. Khim.** **65** (1991) 3169
- DYER, A., SAGHAL, M. A. (Univ. Salford, Dept. Chem. Appl. Chem. Cockcroft Bldg., Salford M5 4WT Lancs England) Thermal studies on MF1 zeolites. 1. Alkali metal and related exchanged forms of ZSM-5 **Thermochim. Acta** **195** (1992) 1015
- EIDELBERG, M. I., SANDULOV, D. B. (MV Frunze State Univ., Simferopol Ukraine USSR) Thermokinetic effects in anodic aluminium dissolution in concentrated mixtures of sulfuric and phosphoric acid **Sov. Electrochem.** **27** (1991) 498
- ELSHAFIE, A., ABDELAAL, A. (Menoufia Univ., Fac. Sci., Dept. Phys., Shiin Al Kawn Egypt) Electrical properties of pure and doped ammonium alum **Thermochim. Acta** **195** (1992) 287
- ELSHALL, M. S., DALY, G. M., GAO, J. L., MEOTNER, M., SIECK, L. W. (Virginia Commonwealth Univ., Dept. Chem., Richmond VA, 23284 USA) How sensitive are cluster compositions to energetics. A joint beam expansion/thermochemical study of water-methanol-trimethylamine clusters J. **Phys. Chem.** **96** (1992) 507
- FERLONI, P., WESTRUM, E. F. (Univ. Pavia, Dip. Chim., Viale Taramelli 16, I-27100 Pavia Italy) Thermodynamic properties of lithium n-alkanoates **Pure Appl. Chem.** **64** (1992) 73
- FERNANDEZ, D., GONZALEZ, P., POU, J., LEON, B., PEREZAMOR, M. (Univ. Vigo, Dept. Fis. Apl., POB 62, E-36280 Vigo Spain) Low-temperature silicon oxide

- films deposited using a CO<sub>2</sub> laser **Appl. Surf. Sci.** **54** (1992) 112
- GABR, R. M., ELAWAD, A. M., GIRGIS, M. M. (Univ. Assiut, Fac. Sci., Dept. Chem., Assiut Egypt) A mechanistic investigation and kinetic analysis of the thermal decomposition of diammonium hexanitrate cerate catalysed by CdxCO<sub>1-x</sub>Fe<sub>2</sub>O<sub>4</sub> catalysts **Thermochim. Acta** **194** (1992) 47
- GARAVIN, V. Y. (Acad. Sci. USSR, Inst. Anhyd. Chem. Solut., Ivanovo USSR) Certain aspects of temperature influence on thermal effects of acid-base interaction **Zh. Fis. Khim.** **65** (1991) 3194
- GARG, B. S., SAXENA, V., DIXIT, R. (Univ. Delhi, Dept. Chem., Delhi 110007 India) Evaluation of thermodynamic functions and stability constants of lanthanon(III) complexes with 1,2-naphthoquinone-2-thiosemicarbazone-4-sulphonic acid (Sodium Salt) **Thermochim. Acta** **195** (1992) 169
- GHARDASHKHANI, S., LINDQUIST, O. (Chalmers Univ. Technol., Dept. Inorgan. Chem., S-41296 Gothenburg Sweden) The influence of carbon monoxide on the reaction between sulphur dioxide and calcium **Thermochim. Acta** **195** (1992) 113
- GLATHE, F., OPPERMANN, H., REICHEL, W. (Tech. Univ. Dresden, Inst. Anorg. Chem., Mommsenstr. 13, O-8027 Dresden Germany) Thermochemical investigations on the compounds YCuO<sub>2</sub> and Y<sub>2</sub>Cu<sub>2</sub>O<sub>5</sub> (in German) **Z. Anorg. Allg. Chem.** **606** (1991) 41
- GONZALEZ, F., PESQUERA, C., BENITO, I. (Univ. Cantabria, Dip. Quim., Avda Los Castros S-N, E-39005 Santander Spain) Thermal investigation of acid-activated atapulgites. Influence of isomorphic substitution in the octahedral sheet **Thermochim. Acta** **194** (1992) 239
- GOSPODINOV, G. G. (Univ. Chem. Technol., Dept. Inorgan. Chem., BU-8010 Burgas Bulgaria) Study on the heat capacity of metal metatellurates of some d-elements within groups I and II of the periodic system and lead metatellurate **Thermochim. Acta** **194** (1992) 391
- GOZZELINO, G., PRIOLA, A., MANTEGNA, M. (Politecn. Turin, Dip. Sci. Mat. Ingn. Chim., I-10128 Turin Italy) Analysis of thermal curves obtained during radiation curing of polymeric films **J. Appl. Polym. Sci.** **44** (1992) 927
- GRIMALDI, M. G., BAERI, P., MALVEZZI, M. A., SIRTORI, C. (Univ. Catania, Dip. Fis., Corso Italia 57, I-95129 Catania Italy) Thermodynamic properties of amorphous silicon investigated by pulsed laser heating **Int. J. Thermophys.** **13** (1992) 141
- GRONING, P., NOWAK, S., SCHLAPBACH, L. (Univ. Fribourg, Dept. Phys., CH-1700 Fribourg Switzerland) Temperature-dependent surface modifications of AISI 316L and AISI 440C stainless steel substrates **Appl. Surf. Sci.** **52** (1991) 333
- GUEY, C. R., ROULPH, C. (Ecole Mines Ales, Ctr. Environment Ind., 6 Ave Clavieres, F-30319 Ales France) Identification of thermal decomposition products of dichlorvos by GC/FTIR and GC/MS (in French) **Analisis** **19** (1991) 359
- GUSTAFSSON, L. (Univ. Goteborg, Dept. Gen. Marine Microbiol., Carl Skottsbergs Gata 22, S-41319 Gothenburg Sweden) Microbiological calorimetry **Thermochim. Acta** **193** (1991) 145
- HA, Y. L., CHAKRABORTY, A. K. (Univ. Calif. Berkeley, Dept. Chem. Engn., Berkeley CA 94720 USA) Effects of solvent polarity and temperature on the conformational statistics of a simple macrocyclic polyether **J. Phys. Chem.** **95** (1991) 10781
- HAMMOND, D. R., HANKIN, S. H. W. (GTE Labs Inc., 40 Sylvan Rd., Waltham MA 02254 USA) Observations on using thermogravimetry as a tool to monitor binder burnout in ceramics **Thermochim. Acta** **192** (1991) 65
- HARTUNG, J. (Hannover Sch. Vet. Med., Inst. Anim. Hyg. Anim. Welfare, Buenteweg 17P, W-3000 Hannover 71 Germany) A bioassay of pollutants from animal house air by batch microcalorimetry **Thermochim. Acta** **193** (1991) 183

- HATTA, I. (Nagoya Univ., Dept. Appl. Phys., Nagoya 46401 Japan) Heat capacity measurements with *ac* microcalorimetry **Pure Appl. Chem.** **64** (1992) 79
- HAYNES, C. A., TAMURA, K., KORFER, H. R., BLANCH, H. W., PRAUSNITZ, J. M. (Univ. Calif. Berkeley, Dept. Chem. Engr., Berkeley CA 94720 USA) Thermodynamic properties of aqueous  $\alpha$ -chymotrypsin solutions from membrane osmometry measurements **J. Phys. Chem.** **96** (1992) 905
- HENRY, K., COUMO, K. G. (Holometrix Inc., Bedford MA, 01730 USA) New direct measurement techniques for thermal conductivity, thermal diffusivity, and specific heat of advanced materials **Thermochim. Acta** **192** (1991) 129
- HERGENROTHER, P. M. (NASA, Langley Res. Ctr., Hampton VA 23665 USA) New developments in thermally stable polymers **Rec. Trav. Chim.** **110** (1991) 481
- HICKEY, G. S. (Caltech., Jet Prop. Lab, Space Mat. Sci. Engr. Sect., Pasadena CA 91109 USA) Effect of electron radiation on polymer matrix systems **Thermochim. Acta** **192** (1991) 199
- HIRATA, T., NISHIMOTO, T. (Forestry Forest Prod. Res. Inst., Box 16, Ibaraki 305 Japan) DSC, DTA and TG of cellulose untreated and treated with flame-retardants **Thermochim. Acta** **199** (1991) 99
- HOFFMAN, R., PAN, W. P. (Western Kentucky Univ., Dept. Chem., Bowling Green KY 42101 USA) Measuring  $\delta H$  using TG-DTA and incorporating mass change into the result **Thermochim. Acta** **192** (1991) 135
- HUANG, J., GALLAGHER, P. K. (Portland State Univ., Dept. Phys., Portland OR 97207 USA) Influence of water vapor on the thermal dehydration of  $\text{Li}_2\text{SO}_4 \cdot \text{H}_2\text{O}$  **Thermochim. Acta** **192** (1991) 35
- HUANG, Y.H., BARTS, S. A., HALPERN, J. B. (Howard Univ., Dept. Chem., Washington DC, 20059 USA) Heat of formation of the CN radical **J. Phys. Chem.** **96** (1992) 425
- HUGLIN, M. B., REGO, J. M. (Univ. Salford, Dept. Chem. Appl. Chem., Salford M5 4WT, Lancs England) Influence of temperature on swelling and mechanical properties of a sulphobetaine hydrogel **Polymer** **32** (1991) 3354
- IBAR, J. P. (Solomat Res. Lab, Glenbrook Ind. PK, Stamford CT 06906 USA) On the use of the compensation law to describe cooperative relaxation kinetics in thermally stimulated processes. A new view **Thermochim. Acta** **192** (1991) 91
- IBAR, J. P. (Solomat Res. Lab, Glenbrook Ind. PK, Stamford CT 06906 USA) Multiple compensation phenomena in the amorphous phase of polymers **Thermochim. Acta** **192** (1991) 265
- IBAR, J. P. (Solomat Res. Lab, Glenbrook Ind. PK, Stamford CT 06906 USA) A dual split kinetics interpretation of compensation law at the Tg of amorphous polymers **Thermochim. Acta** **192** (1991) 297
- ILLEKOVA, E., ABA, B., KUHNAST, F. A. (Slovak Acad. Sci., Inst. Phys., Dubravská Cesta, CS-84228 Bratislava Czechoslovakia) Measurements of accurate specific heats of metallic glasses by differential scanning calorimetry (DSC). 1. Analysis of theoretical principles and accuracies of suggested measurement procedures **Thermochim. Acta** **195** (1992) 195
- ILLEKOVA, E., ABA, B., KUHNAST, F. A. (Slovak Acad. Sci., Inst. Phys., Dubravská Cesta, CS-84228 Bratislava Czechoslovakia) Measurements of accurate specific heats of metallic glasses by differential scanning calorimetry (DSC). 2. Specific heat of  $\text{Fe}_{73}\text{Co}_{12}\text{B}_{15}$  metallic glass from 300 to 1054 K **Thermochim. Acta** **195** (1992) 211
- IMAI, J., KANEKO, K. (Chiba Univ., Fac. Sci., Dept. Chem., Chiba 260 Japan) Low temperature reduction of NO to N<sub>2</sub> over surface modified activated carbon fibers in the presence of SO<sub>2</sub> **J. Colloid Interface Sci.** **148** (1992) 595
- ITOH, E., YAMAMOTO, K., FUNATO, M., SUZUKI, M., UEHARA, A. (Kanazawa Univ., Fac. Sci., Dept. Chem., Kanazawa Ishikawa 920 Japan) Preparation of chromium (III) complexes with a series of tetraazacycloalkanes, [12] and N<sub>4</sub> to [16]

- ane N<sub>4</sub>, and solid-state thermal isomerisation of cis-[CrCl<sub>2</sub>([15]- or [16] ane N<sub>4</sub>)] **Thermochim. Acta** **195** (1991) 51
- ITOH, T., MITA, I. (Schowa Univ., Sch. Pharmaceut. Sci., 1-5-8 Hatanodai, Shinagawa Ku, Tokyo 142 Japan) Temperature-dependent conformational change and intramolecular energy transfer of polysilylenes **Macromolecules** **25** (1992) 479
- JAGER, H., NEFF, W., POTTLACHER, G. (Graz Tech. Univ., Inst. Exptl. Phys., Petergasse 16, A-8010 Graz Austria) Improved thermophysical measurements on solid and liquid tantalum **Int. J. Thermophys.** **13** (1992) 83
- JOHNSON, D. J., COMPTON, D. A. C., CANALE, P. L. (Bio Rad., Div. Dieilab. 237 Putnam Ave, Cambridge MA 02139 USA) Applications of simultaneous DSC/FTIR analysis **Thermochim. Acta** **195** (1992) 5
- JORDANOVSKA, V., SIFTAR, J. (Univ. Skopje, Fac. Sci., Inst. Chem., YU-91000 Skopje Yugoslavia) Double sulphates of rare earth(III) with trimethylammonium. 1. Synthesis and thermal decomposition of (CH<sub>3</sub>)<sub>3</sub>NHLn(SO<sub>4</sub>)<sub>2</sub>·3H<sub>2</sub>O **Thermochim. Acta** **195** (1992) 21
- JORDANOVSKA, V., SIFTAR, J. (Univ. Skopje, Fac. Sci., Inst. Chem., YU-91000 Skopje Yugoslavia) Double sulfates of rare earth(III) with trimethylammonium. 2. Synthesis and thermal decomposition of [(H<sub>3</sub>)<sub>3</sub>NH]<sub>3</sub>Ln(SO<sub>4</sub>)<sub>3</sub>·4.5H<sub>2</sub>O **Thermochim. Acta** **195** (1992) 27
- KABACHNIK, M. I., ZAKHAROV, L. S., MOLCHANOVA, G. N., DROZDOVA, T. D., PETROVSKII, P. V. (AN Nesmeyanov Organomet. Cpds. Inst., Moscow USSR) Synthesis and study of the thermal stability of silicon-containing esters of phosphorus acids. 4. Thermal rearrangement of trimethylsilylmethyl esters of phosphorus acids **Bull. Acad. Sci. USSR** **40** (1991) 1036
- KABO, G. J., KOZYRO, A. A., KROUK, V. S., SERRUK, V. M., YURSHA, I. A., SIMIRSKY, V. V., GOGOLINSKY, V. I. (Byelorussian State Univ., Dept. Chem., Minsk 220050 Belorussia USSR) Thermodynamic properties of 6-alumino-hexanoic lactam (ε-caprolactam) **J. Chem. Thermodyn.** **24** (1992) 1
- KAISER, E. W. (Ford Motor Co, Sci. Res. Labs, Dept. Chem., MD-3083, Dearborn MI 48121 USA) Pressure dependence of the reaction Cl + C<sub>2</sub>H<sub>2</sub> over the temperature range 230 K to 370 K **Int. J. Chem. Kin.** **24** (1992) 179
- KALENIK, Z., WOLF, E. E. (Univ. Notre Dame, Dept. Chem. Engn., Notre Dame IN 46556 USA) Temperature programmed isotopic exchange of lattice oxygen during methane oxidative coupling **Cat. Lett.** **11** (1991) 309
- KATAYAMA, S. (Shizuska Univ., Sch. Pharmaceut. Sci., 395 Yada, Oya Shizuoka 422 Japan) Thermoreversible characteristics of ionic gels. Convex type volume phase transition **Polym. Commun.** **32** (1991) 558
- KEMP, R. B. (Univ. Coll. Aberystwyth, Dept. Biol. Sci., Cell Biol. Lab, Aberystwyth SY23 3DA, Dyfed Wales) Calorimetric studies of heat flux in animal cells **Thermochim. Acta** **193** (1991) 253
- KIM, Y. C., HIGUCHI, R., KITOCMURA, Y., KOMORI, T. (Kyushu Univ., Fac. Pharmaceut. Sci., Maidashi 3-1-1, Higashi Ku, Fukuoka 812 Japan) Thermal degradation of glycosides. 4. Degradation of flavonoid glycosides **Lieb. Ann. Chem.** **12** 91991) 1285
- KIRSS, H., KUUS, M., SIIMER, E., KUDRYAVTSEVA, L. (Acad. Sci. ESSSR, Inst. Chem., 200103 Tallinn Estonia USSR) Measurement correlation and prediction of binary vapour liquid equilibria and enthalpies of mixing for systems containing isomeric alkynes **Thermochim. Acta** **195** (1992) 85
- KITANO, H., YAN, C. H., NAKAMURA, K. (Toyama Univ., Dept. Chem. Biochem. Engn., Toyama 930 Japan) Microspheres prepared from temperature-sensitive graft polymers **Macromol. Chem.** **192** (1991) 2915
- KLUMP, H. H., VOLKER, J., MAEDER, D. L., NIERMANN, T., SOBOLEWSKI, C. H.

- M. (Univ. Cape Town, Dept. Biochem., Cape Town South Africa) Conformational changes in nuclei acids/chromatin structure **Thermochim. Acta** **193** (1991) 391
- KOLESNIK, Y. R., CHERVAKOV, O. V., BORTNITSKY, V. G., KOVAL, I. V., GREKOV, A. P. (Acad. Sci. UKSSR, Inst. Chem. Macromolec. Cpds., Kiev Ukraine USSR) Pyrolysis of pyridinium disiloxanes **Ukr. Khim. Zh. SSSR** **57** (1991) 772
- KOLESOV, V. P. (MV Lomonosov State Univ., Dept. Chem., Moscow 119899 USSR) The luginin thermochemical laboratory of the Moscow State University **Pure Appl. Chem.** **64** (1992) 9
- KOLTSOV, S. I., TUZ, T. V. (Lensovet Technol. Inst., Chair Electr. Tech. Products Mat. Chem. Technol., Leningrad USSR) Thermal treatment effect on stability of titanoxide layers synthesized on silica gel surface by the molecular stratifying method **Thermochim. Acta** **192** (1991) 90
- KONINGS, R. J. M., BOOIJ, A. S., CORDFUNKE, E. H. P. (Netherlands Energy Res. Fdn., ECN, POB1, 1755 ZG Petten Netherlands) High-temperature infrared study of the vaporization of CsI, CdI<sub>2</sub> and Cs<sub>2</sub>CdI<sub>4</sub> **Vib. Spectrosc.** **2** (1991) 251
- KOSHEL, N. D., PLASHENKO, A. S. (Fe Dzerzhinskii Chem. Engr. Inst., Dnepropetrovsk Ukraine USSR) Temperature dependence of lithium corrosion in aqueous lithium hydroxide solutions **Sov. Electrochem.** **27** (1991) 495
- KRUGER, D., GROSSKLAUS, R. (Max von Pettenkofer Inst. Fed. Hlth. Off, Postfach 3300B W-1000 Berlin 33 Germany) In vitro energy conversion of sugars and sugar substitutes by rat calca flora **Thermochim. Acta** **193** (1991) 173
- LABRADOR, M., CUEVASDIARTE, M. A., MONDIEIG, D., HAGET, Y. (Univ. Barcelona, Fac. Geol., Dept. Crist. Min. Dip. Min., C Marti Franques S-N, E-08029 Barcelona Spain) The application of DSC to the study of phase segregation during the thermal cycling of para-dihalosubstituted derivatives of benzene and their alloys **Thermochim. Acta** **195** (1992) 261
- LAINIZ, A., RODRIGO, M. M., WILHELM, E., GROLIER, J. P. E. (Univ. Complutense, Fac. CC Quim., Dept. Quim. Fis., E-28040 Madrid Spain) Thermodynamics of liquid mixtures containing n-alkanes and strongly polar components. V(E) and CP(E) of mixtures with either pyridine or piperidine **J. Solut. Chem.** **21** (1992) 49
- LAMURE, A., MARTIN, M., HARMAND, M. F., LACABANNE, C. (Univ. Toulouse 3, Phys. Solides Lab, CNRS, Ura 74, 118 Route Narbonne, F-31062 Toulouse France) Thermostimulated current study of the dynamic behaviour of a biocomposite. Calcified tissue **Thermochim. Acta** **192** (1991) 313
- LEE, J. S., PERNG, J. C., HUANG, C. W., PAN, W. P. (Chung Shan Inst. Sci. Technol., Lungtan 32526 Taiwan) A study of the effects of CeO<sub>2</sub> on the crystallization of CaO/P<sub>2</sub>O<sub>5</sub> glass **Thermochim. Acta** **192** (1991) 29
- LEINWEBER, P., SCHULTEN, H. R., HORTE, C. (Fachhsch. Fresenius, Dept. Trace Anal., Dambachtal 20, W-6200 Wiesbaden Germany) Differential thermal analysis, thermogravimetry and pyrolysis field ionisation mass spectrometry of soil organic matter in particle-size fractions and bulk soil samples **Thermochim. Acta** **194** (1992) 175
- LEPARLOUER, P. (Setaram, 7 Rue Oratoire, F-69300 Caluire France) Selection of an optimum calorimetry method for measuring specific heat of ceramics at high temperature **Thermochim. Acta** **192** (1991) 55
- LLOYD, M. J., WORMALD, C. J. (Univ. Bristol, Sch. Chem., Bristol BS8 1TS Avon England) Excess molar enthalpies of [x(CH<sub>3</sub>)<sub>2</sub>CO+(1-x)(C<sub>6</sub>H<sub>6</sub>)] at temperatures from 494.5 K to 577.4 K at the pressure 5.68 MPa **J. Chem. Thermodyn.** **24** (1992) 67
- LUKASOV, S. V., PETROPAVLOVSKII, G. A., LARINA, E. I., GRIGOREV, A. I., SIDOROVICH, A. V., SAVENKOV, A. D., KALININA, N. A., KALLISTOV, O. V. (Acad. Sci. USSR, Onst. Macromolec. Cpds., Moscow V-71 USSR) Thermal



- properties and structural organization of composite films based on synthetic lattices and cellulose ethers **J. Appl. Chem. USSR** **64** (1992) 350
- MAGLIC, K. D., DOBROSAVLJEVIC, A. S. (Boris Kidrich Inst. Nucl. Sci. Vincha, Belgrade Yugoslavia) Measurements of specific heat and electrical resistivity of austenitic stainless steel (St 1 4970) in the range 300-1500 K by pulse calorimetry **Int. J. Thermophys.** **13** (1992) 57
- MAGLIC, K. D., DOBROSAVLJEVIC, A. S. (Boris Kidrich Inst. Nucl. Sci. Vincha, Belgrade Yugoslavia) Subsecond thermophysics research at the Borid-Kidrich-Institute-Vincha **Int. J. Thermophys.** **13** (1992) 3
- MAEDA, K., MIZUKAMI, F., NIWA, S., TOBA, M., WATANABE, M., MASUDA, K. (Natl. Chem. Lab. Ind., Higashi Ku, Tsukuba Ibaraki 305 Japan) Thermal behaviour of alumina from aluminium alkoxide reacted with complexing agent **J. Chem. Soc. Faraday Trans.** **88** (1992) 97
- MAO, M., ALTOUNIAN, Z. (McGill Univ., Ctr. Phys. Mat., Montreal Quebec Canada H3A 2T5) Comparison of crystallization kinetics studied by DSC and TGA **Thermochim. Acta** **192** (1991) 85
- MARCACGRAHEK, T., BUKOVEC, P., BUKOVEC, N. (Edvard Kardelj Univ., Dept. Chem. Chem. Technol., YU-61000 Ljubljana Yugoslavia) DSC analysis of the reaction between lithium and boron **Thermochim. Acta** **194** (1992) 385
- MARTINEZLOPE, M. J., BAURAPENA, M. P., GARCIADELAVEL, M. E. (CSIC, Ctr. Ciencias Medioarubientales, Serrano 115 Dpdo, E-28006 Madrid Spain) Synthesis of magnesium orthotitanate  $Mg_2TiO_4$  **Thermochim. Acta** **194** (1992) 59
- MARTINEZLOPE, M. J., BAURAPENA, M. P., GARCIADELAVEL, M. E. (CSIC, Ctr. Ciencias Medioarubientales, Serrano 115 Dpdo, E-28006 Madrid Spain) The composition of magnesium titanates as a function of the synthesis method **Thermochim. Acta** **194** (1992) 247
- MATSUMOTO, A., HORIE, A., OTSU, T. (Aoyama Gakuin Univ., Dept. Chem., Shinagawa Ku, Tokyo 157 Japan) Synthesis and thermal properties of poly-(adamantyl sorbate) **Macromol. Chem.** **12** (1991) 681
- MONTI, M. (Univ. Lund Hosp., Dept. Internal Med., S-22185 Lund Sweden) Calorimetric studies of lymphocytes and hybridoma cells **Thermochim. Acta** **193** (1991) 281
- MORALES, J. J. (Univ. Extremadura, Fac. Ciencias, Dpto Fis., E-06011 Badajoz Spain) Study of the surface conductance coefficient in a plastic bar **Thermochim. Acta** **194** (1992) 231
- MORCELLET, M. (Univ. Sci. Techn. Flandres Artois, Chim. Macromolec. Lab, CNRS, Ura 351, F-59655 Villeneuve Dasqo France) Thermodynamics of the copper complexation of a polyelectrolyte derived from lysine **Thermochim. Acta** **195** (1991) 277
- MORCHAT, R. M., HILTZ, J. A. (DEF Res. Estab. Atlantic, Dartmouth NS Canada B2Y 3Z7) A TGA study correlating polymer characteristics with smoke and flammability properties of polyester and phenolic resins **Thermochim. Acta** **192** (1991) 221
- MOUKWA, M., FARRINGTON, S., YOUN, D. (Master Builders Inc., 23700 Chagrin Blvd., Cleveland OH 44122 USA) Determination of  $Ca(OH)_2$  in hydrated cement paste by differential scanning calorimetry **Thermochim. Acta** **195** (1992) 231
- MUKHERJEE, A. K., MOHAN, A. (Indian Inst. Technol., Dept. Text. Technol., New Delhi 110016 India) Thermal studies on brominated atactic polypropylene **J. Appl. Polym. Sci.** **44** (1992) 773
- MULOKOZI, A. M., LUGWISHA, E. (Univ. Dar el Salaam, Dept. Chem., POB 35061, Dar es Salaam Tanzania) New aspects of the decomposition kinetics of calcite. 1. Isothermal decomposition **Thermochim. Acta** **194** (1992) 375
- MUNZING, K. (Fed. Ctr. Cereal Potato Lipid Res., POB 1354, W-4930 Detmold Germany) DSC studies of starch in cereal

- products **Thermochim. Acta** **193** (1991) **441**
- MYASOEDOVA, V. V., POKROVSKII, S. A., ZAVYALOV, N. A., KRESTOV, G. A. (Acad. Sci. USSR, Inst. Anhydrous Solut. Chem., Ivanovo USSR) Thermochemistry of solution and principles of solvation of cellulose, polysaccharides and their derivatives **Usp. Khim.** **60** (1991) **1875**
- NEMIROVSKAYA, I. E., MORDKOVICH, V. Z., BAYCHTOK, Y. K. (Acad. Sci. USSR, Inst. Anhydrous Solut. Chem., Ivanovo USSR) Hydrogen sorption in  $\text{LaNi}_{4.98}\text{Al}_{0.02}\text{H}_2$  at low temperatures **Thermochim. Acta** **194** (1992) **253**
- NEMIROVSKAYA, I. E., GRECHENKO, A. N., ALEKSEEV, A. M. (State Inst. Nitrogen Ind., Moscow USSR) Thermoanalysis as a tool for investigation of the formation of Co-precipitated catalysts, with Fe-containing systems as an example **Thermochim. Acta** **194** (1992) **77**
- NEUHAUS, P., EGRY, I., LOHOFAR, G. (German Aerosp. Res. Estab., Inst. Space Simulat., W-5000 Cologne 90 Germany) Aspects of high-temperature pyrometry for measurements in ultra-high vacuum **Int. J. Thermophys.** **13** (1992) **199**
- OGORODOVA, L. P., KISELEVA, I. A. (MV Lomonosov State Univ., Dep. Geol., Moscow 117234 USSR) Calorimetric study of  $\text{Na}_5\text{Al}_3\text{F}_{14}$  chiolite mineral **Zh. Fis. Khim.** **65** (1991) **3189**
- OPREA, C., TOGAN, D., POPESCU, C. (Inst. Cercetari Proiectari Tehnol. Pentru Sticla Ceramica Fina, Bd. Th. Pallady 305, Bucharest Romania) Structure and properties of glasses with a low amount of  $\text{SiO}_2$  in a quaternary system of  $\text{Al}_2\text{O}_3\text{-SiO}_2\text{-CaO-MgO}$  **Thermochim. Acta** **194** (1994) **165**
- ORTEGA, J., GONZALEZ, E., MATOS, J. S., LEGIDO, J. L. (Esc. Super. Ingn. Ind., Catedra Termodin. Fisicoquim., E-B5071 Las Palmas Spain) Thermodynamic properties of (a methyl ester + an n-alkane). 1.  $H_m(E)$  and  $V_m(E)$  for  $[x\text{CH}_3(\text{CH}_2)_{u-1}\text{CO}_2\text{CH}_3 (u = 1 \text{ to } 6) + (1-x)\text{CH}_3(\text{CH}_2)_6\text{CH}_3]$  **J. Chem. Thermodyn.** **24** (1992) **15**
- ORTEGA, J., MATOS, J. S., PENA, J. A. (Esc. Super. Ingn. Ind., Catedra Termodin. Fisicoquim., E-B5071 Las Palmas Spain) Experimental and predicted mixing enthalpies for several methyl normal-alkanoates with normal-pentane at 298.15 K. application of the UNIFAC model **Thermochim. Acta** **195** (1992) **321**
- OTAIGBE, J. U., EGIEBOR, N. O. (Univ. Alberta, Dept. Min. Me. Petr. Engn., Edmonton Alberta Canada T6G 2G6) Insitu desulfurization of coke by novel activated sulfur sorbents during combustion **Thermochim. Acta** **195** (1992) **183**
- OTT, J. B., SIPOWSKA, J. T., WOOLLEY, A. T., IZATT, R. M. (Brigham Young Univ., Dept. Chem., Provo UT 84602 USA) Excess enthalpies for (propane-butan-1-ol) at the temperatures 298.15 K and 323.15 K and the pressures 5 MPa and 15 MPa, and at 348.15 K and 363.15 K and 5 MPa, 10 MPa, and 15 MPa **J. Chem. Thermodyn.** **24** (1992) **75**
- PANCHOLI, H. B., PATEL, M. M. (Sardar Patel Univ., Dept. Chem., Vallabh Vidyanagar 388120 Gujarat India) 2-hydroxyacetophenone thiourea trioxane resins and their thermal studies **Thermochim. Acta** **194** (1992) **1**
- PETZEL, T., MARX, V., POTTHAST, J., AHNEN, T. (Univ. Bundeswehr, Inst. Werkstofftech., Holstenhofweg 85, W-2000 Hamburg 70 Germany) A comparative investigation on the thermodynamics of vaporization of  $\text{LaF}_3$  and  $\text{LuF}_3$  **Thermochim. Acta** **194** (1993) **319**
- PHILLIPS, E. A., BLAZEY, S. D. (A Schulman Inc., 790 E Tallmadge Ave, Akron OH 44310 USA) Quantitative thermogravimetric analysis of starch contents in several polymer systems **Thermochim. Acta** **192** (1991) **191**
- PIEKARSKA, A., TANIEWSKAOSINSKA, S. (Univ. Lodz, Inst. Chem., Dept. Phys. Chem., ul. Pomorska 18, PL-91416 Lodz Poland) Single-ion transfer enthalpies in methanol acetonitrile mixtures at 298.15 K based on the  $\text{Ph}_4\text{P}^+ = \text{BPh}_4^-$  assumption **Thermochim. Acta** **194** (1992) **117**

- RABANI, E., CHARUTZ, D. M., LEVINE, R. D. (Hebrew Univ. Jerusalem, Fritz Haber Res. Ctr. Molec. Dynam., IL-91904 Jerusalem Israel) Nonmonotonic temperature dependence of the rates of ion molecule reactions **J. Phys. Chem.** **95** (1991) **10551**
- RAEMY, A., LAMBELET, P. (Nestec Ltd., Res. Ctr., Vers Chez Lesblanc, CH-1000 Lausanne 26 Switzerland) Thermal behaviour of foods **Thermochim. Acta** **193** (1991) **417**
- RAKIC, V., DONDUR, V., MISLJENOVIC, D. M. (Univ. Belgrade, Fac. Sci., Inst. Phys. Chem., Studentski Trg. 12, POB 550 Belgrade Yugoslavia) Study of consecutive mechanism of desorption with diffusion step under non-isothermal conditions **Thermochim. Acta** **194** (1992) **275**
- RAVEN, M. S., INAMENTI, E. E., WAN, Y. M., MURRAY, B. G. (Univ. Nottingham, Dept. Elect. Electr. Engn., Nottingham NG7 2RD England) Thermodynamic aspects to the growth of thin films of superconducting  $YBa_2Cu_3O_x$  **Vacuum** **43** (1992) **127**
- REED, L. H., JAYASURIA, K., KOOVAKKAT, S. K., ALLEN, L. C. (Princeton Univ., Dept. Chem., Princeton NJ 08544 USA) Estimation of thermodynamic stability and charge distribution for unknown molecules. Nitro derivatives of cubane **J. Phys. Org. Chem.** **4** (1991) **714**
- REH, U. (Tech. Univ. Berlin, Inst. Biochem. Molec. Biol., W-1000 Berlin 12 Germany) Calorimetry in ecology **Thermochim. Acta** **193** (1991) **107**
- REICH, L. (Stevens Inst. Technol. Lib, Dept. Chem. Chem. Engn., Hoboken NJ 07030 USA) Use of databases in thermal analysis. 3. **Thermochim. Acta** **195** (1992) **221**
- RIALDI, G., BATTISTEL, E., BARISAS, B. G. (CNR, Ctr. Studi Chim. Fis. Macromolec. Sintet. Nat., I-16132 Genoa Italy) Thermodynamics of enzymes in unusual environments **Thermochim. Acta** **193** (1991) **349**
- RODANTE, F., MARROSU, G., CATALANI, G. (Univ. Rome, Dip. Ingn. Chim. Mat. Materie Prime Met., I-00161 Rome Italy) Thermal analysis of some  $\alpha$ -amino acids with similar structures **Thermochim. Acta** **194** (1992) **197**
- ROG, G., KOZLOWSKAROG, A., ZAKULA, K. (Stanislaw Staszic Univ. Min. Met., Inst. Mat. Engn., PL-30059 Krakow Poland) Determination of the standard Gibbs free energies of formation of the sodium aluminates by emf measurements **J. Chem. Thermodyn.** **24** (1992) **41**
- RONCHI, C., BEUKERS, R., HEINZ, H., HIERNAUT, J. P., SELFESLAG, R. (Commiss. European Communities, Joint Res. Ctr., Karlsruhe Estab., European Inst. Transuranium Elements, Karlsruhe 75 Germany) Graphite melting under laser pulse heating **Int. J. Thermophys.** **13** (1992) **107**
- ROSS, J., HUNT, K. L. C., HUNT, P. M. (Stanford Univ., Dept. Chem., Stanford CA 94305 USA) Thermodynamic and stochastic theory for nonequilibrium systems with multiple reactive intermediates. The concept and role of excess work **J. Chem. Phys.** **96** (1992) **618**
- ROY, R. N., MOORE, C. P., WHITE, M. N., ROY, L. N., VOGEL, K. M., JOHNSON, D. A., MILLERO, F. J. (Drury Coll., Dept. Chem., Springfield, MO 65802 USA) Thermodynamics properties of aqueous mixtures of HCl and  $CoCl_2$  at different temperatures. Application of Pitzer formalism **J. Phys. Chem.** **96** (1992) **403**
- RUSH, R. M. (SC Elect. Co., 6601 N Ridge Blvd., Chicago IL 60626 USA) Evaluation of ethylene propylene rubber O-rings for incoming quality control **Thermochim. Acta** **192** (1991) **171**
- RUSANOV, A. I. (DI Mendeleev Ctr., Leningrad 199034 USSR) Problems of surface thermodynamics **Pure Appl. Chem.** **64** (1992) **137**
- SAFFELL, J. R., MATTHIESEN, A., MCINTYRE, R., IBAR, J. P. (Solomat Mfg. Ltd., Ottery Saint Mary EX11 1B, Devon England) comparing thermal stimulated current (TSC) with other thermal analytical methods to characterize the amorphous phase of polymers **Thermochim. Acta** **192** (1991) **243**

- SANCHEZVALIENTE, M., MARTINGIL, F. J., MARTINGIL, J., SIGUENZE, A. F., MIGUEL, J. L. (Univ. Valladolid, Etsii, Anal. Term. Lab, Paseo Del Cauce S-N, E-47071 Valladolid Spain) DSC study of a metabolic pathway (biosynthesis of pineal indoles) *Thermochim. Acta* **195** (1992) 251
- SANDHU, J. S., SINGH, A. (Punjab Univ., Dept. Chem., Patiala 147002 Punjab India) Excess molar volumes of (acrylonitrile + an n-alkan-1-ol) at the temperature 298.15 K *J. Chem. Thermodyn.* **24** (1991) 81
- SAUER, P. J. J., VISSER, H. K. A. (Erasmus Univ., Hosp. Dijkzigt, Dept. Paediat., Rotterdam Netherlands) Calorimetry of newborn infants. Techniques and applications *Thermochim. Acta* **193** (1991) 49
- SAWHNEY, S. S., PANT, V., CHAUDURY, B. (Dav. Postgrad. Coll., Dept. Chem., Dehra Dun 248001 Uttar Pradesh India) Thermal studies on [diaqua bis(2-hydroxy-1,4-naphthalenedionato)] copper(II). 0.25H<sub>2</sub>O *Thermochim. Acta* **195** (1992) 1
- SAXBY, J. D., CHATFIELD, S. P., PALMISANO, A. J., VASSALLO, A. M., WILSON, M. A., PANG, L. S. K. (CSIRO, Div. Coal Energy Technol., POB 136, N Ryde, NSW 2113 Australia) Thermogravimetric analysis of buckminsterfullerene and related materials in air *J. Phys. Chem.* **96** (1992) 17
- SCHARLIN, P., BATTINO, R. (Univ. Turku, Dept. Chem., SF-20500 Turku 50 Finland) Solubility of 13 nonpolar gases in deuterium oxide at 15 degrees C, 45 degrees C and 101.325 kPa. Thermo-dynamics of transfer of nonpolar gases from H<sub>2</sub>O to D<sub>2</sub>O *J. solut. Chem.* **21** (1992) 67
- SCHMIDT, K. H., HAN, P., BARTELS, D. M. (Argonne Natl. Lab, Div. Chem., Argonne IL 60439 USA) Temperature dependence of solvated electron diffusion in H<sub>2</sub>O and D<sub>2</sub>O *J. Phys. chem.* **96** (1992) 199
- SCHULTZEMOTEL, P. (Free Univ. Berlin, Inst. Biophys., Thielallee 63, W-1000 Berlin 33 Germany) Heat loss and thermoregulation in a nest of the bumblebee *bombus-lapidarius* (Hymenoptera, Apidae) *Thermochim. Acta* **193** (1991) 57
- SEYMOUR, R. S. (Univ. Adelaide, Dept. Raiat. Med., Gpo Box 498, Adelaide SA 5001 Australia) Analysis of heat production in a thermogenic arum lily, *philodendron-selloum*, by 3 calorimetric methods *Thermochim. Acta* **193** (1991) 91
- SHA, H. J., ZHANG, X. F., HARRISON, I. R. (Penn State Univ., Dept. Mat. Sci., Engn., 325 Steidle Bldg., Univ. PK, PA 16802 USA) A dynamic mechanical thermal analysis (DMTA) study of polyethylenes *Thermochim. Acta* **192** (1991) 233
- SHEINDLIN, M. A. (Acad. Sci. USSR, Ivtn, Inst. High Temp., Izhorzkaya 13-19, Moscow 127412 USSR) Pulse techniques for experimental studies on carbon at extreme temperatures *Int. J. Thermophys.* **13** (1992) 95
- SHUKLA, S. R., RAO, G. V. G., ATHALYE, A. R. (Univ. Bombay, Dept. Chem. Technol., Bombay 400019 India) Mechanical and thermal behaviour of cotton cellulose grafted with hydroxyethyl methacrylate using photoinitiation *J. Appl. Polym. Sci.* **44** (1992) 577
- SLANINA, Z. (Max Planck Inst. Chem., Otto Hahn Inst., W-6500 Mainz Germany) Multi-molecular clusters and their isomerism. 66. An evaluation of CO<sub>2</sub>/(CO<sub>2</sub>)<sub>2</sub> equilibrium populations in the planetary atmosphere close to the surface of Mars or Venus *Thermochim. Acta* **195** (1992) 45
- SMITH, J. R., ZANONATO, P. L., CHOPPIN, G. R. (Florida State Univ., Dept. Chem., Tallahassee FL 32306 USA) An elevated-temperature titration calorimeter *J. Chem. Thermodyn.* **24** (1992) 99
- SPISIAK, J., RIGHINI, F. (CNR, Ist. Metrol. G. Colonnetti, str. Cacce 73, I-10135 Tarin Italy) Differential equations for a dynamic thermal conductivity experiment *Int. J. Thermophys.* **13** (1992) 29
- SUGA, H., MATSUO, T., YAMAMURO, O. (Osaka Univ., Fac. Sci., Dept. Chem., Toyonaka Osaka 560 Japan) Thermodynamic study of ice and clathrate hydrates *Pure Appl. Chem.* **64** (1992) 17

- TAKAGI, T., NOGUCHI, M. (Kyoto Inst. Technol., Fac. Engn. Design, Kyoto 606 Japan) Ultrasonic speeds and thermodynamic properties for pentafluoropropyl alcohol, tetrafluoropropyl alcohol and trifluoroethyl alcohol under high pressures **Thermochim. Acta** **195** (1992) **239**
- TERAOKA, I., SIEMENS, R. L., TWIEG, R. J., BETTERTON, K. (IBM Corp., Res, 650 Harry Rd., San Jose CA 95120 USA) Dielectric studies of ferroelectric liquid crystals **Thermochim. Acta** **192** (1991) **47**
- TIMOFEEV, B. I., YULDASHEVA, V. M., PLYUSHCHEVA, S. V. (MV Lomonosov State Univ., Dept. Chem., Moscow 117234 USSR) Standard enthalpy of molybdenum(V) chloride formation **Zh. Fis. Khim.** **65** (1991) **3205**
- TOWLER, G. P., LYNN, S. (Univ. Calif. Berkeley, Berkeley CA 94720 USA) Thermodynamic analysis of a fluidized-bed combustor **Thermochim. Acta** **194** (1992) **149**
- TULISZKA, M., JAROSZYK, F. (Med. Acad. Poznan, Dept. Biophys., Fredry Str. 10, PL-61701 Poznan Poland) A new method of investigation of the DNA melting process. The thermal conductivity method **Thermochim. Acta** **194** (1992) **67**
- TUMA, L. D. (Merck Sharp dohme Ltd., POB 2000, Rahway NJ 07065 USA) Identification of process hazards using thermal analytical techniques **Thermochim. Acta** **192** (1991) **121**
- TYULIEV, G., SOKOLOVA, M. (Bulgarian Acad. Sci., Inst. Gen. Inorgan. Chem., BU-1113 Sofia Bulgaria) Temperature dependence of Ni<sup>3+</sup> quantity in the surface layer of NiO **Appl. Surf. Sci.** **52** (1991) **343**
- UMANTSEV, A. (Northwestern Univ., Inst. Technol., Dept. Mat. Sci. Engn., Evanston K 60208 USA) Thermodynamic stability of phases and transition kinetics under adiabatic conditions **J. Chem. Phys.** **96** (1992) **605**
- VANDERSCHUEREN, J., NIEZETTE, J., YIANAKOPOULOS, G., THIELEN, A. (State Univ. Liege, Dept. Macromolec. Phys. Chem., B6, B-4000 Liege Belgium) Study of the thermal relaxation effects in polymers by a conjugated use of thermally stimulated depolarization and polarization current methods **Thermochim. Acta** **192** (1991) **287**
- VENUGOPAL, V., DHARWADKAR, S. R., HILPERT, K., KOBERTZ, D. (Bhabha Atom Res. Ctr., Div. Fuel Chem., Bombay 400085 India) The role of insitu reactive metal getters in the determination of phase equilibrium diagram in metallic systems **Thermochim. Acta** **195** (1992) **177**
- VICENTINI, G., DASILVA, E. M., MATOS, J. R., ZINNER, K. (Univ. Sao Paulo, Inst. Quim., CP 20780 BR-01498 Sao Paulo Brazil) Synthesis, characterization and thermal properties of some lanthanoid picrate complexes with 4-picoline-N-oxide (4-pic NO) **Thermochim. Acta** **195** (1992) **39**
- VIGGIANO, A. A., MORRIS, R. A., VANOLOREN, J. M., PAULSON, J. F. (Phillips Lab, Geophys. Directorate, Div. Ionospher. Effects, Gpid, Bedford MA 01731 USA) Temperature, kinetic energy, and internal energy dependences of the rate constant and branching fraction for the reaction of O+(S-4) with CO<sub>2</sub> **J. Chem. Phys.** **96** (1992) **279**
- VINTHER, A., SOEBERG, H., NIELSEN, L., PEDERSEN, J., BIEDERMANN, K. (Novo Nordisk, Dept. Fermentat. Physiol., Hagedornsvej 1, DK-2820 Gentofte Denmark) Thermal degradation of a thermolabile, serratia-marcescens nuclease using capillary electrophoresis with stacking conditions **Anal. Chem.** **64** (1992) **187**
- VONSTOCKAR, U., MARISON, I. W. (Swiss Fed. Inst. Technol., Inst. Chem. Engn., CH-1015 Lausanne Switzerland) Large-scale calorimetry and biotechnology **Thermochim. Acta** **193** (1991) **215**
- VORONIN, G. F. (MV Lomonosov State Univ., Dept. Chem., Moscow 119899 USSR) Thermodynamics of high-temperature superconducting materials **Pure Appl. Chem.** **64** (1992) **27**

- VYAZOVKIN, S., GORYACHKO, V. (Byelorussian State Univ., Inst. Physico-Chem. Problems, Minsk 220080 USSR) Potentialities of software for kinetic processing of thermoanalytical data by the isoconversion method **Thermochim. Acta** **194** (1992) 221
- VYSOTSKII, A. V., PSAVKO, B. R., LOBZA, G. V., CHENETS, V. V., CHUKIN, G. D. (Bratsk Ind. Inst., Bratsk USSR) Thermographic and X-ray phase analysis study of aluminium nickel molybdenum catalytic systems promoted with element silicate zeolites **Kinet. Catal.** **32** (1991) 627
- WARNE, S. S. (Univ. Newcastle, Dept. Geol., Rankin DR, Shortland NSW 2308 Australia) Thermal analysis. A resurgence in the earth sciences with applied, industrial and environmental aspects **Thermochim. Acta** **192** (1991) 19
- WEINBERG, M. C. (Univ. Arizona, Arizona Mat. Lab, 4715 E Ft Lowell Rd., Tucson AZ 85712 USA) The use of site saturation and Arrhenius assumptions in the interpretation of non-isothermal DTA/DSC crystallization experiments **Thermochim. Acta** **194** (1992) 93
- WEPPEN, P., EBENS, J., MULLER, B. G., SCHULLER, D. (Univ. Kiel, Forschungsstelle Okosystemforsch. Okotech., Biologiezentrum, W-2300 Kiel 1 Germany) On-line estimation of biological oxygen demand using direct calorimetry on surface attached microbial cultures **Thermochim. Acta** **193** (1991) 135
- WOO, L., LING, M. T. K., CHAN, E. (Baxter Helathcare Corp., Round Lake, IL 60073 USA) Application of the oxidative induction test to medical polymers **Thermochim. Acta** **192** (1991) 209
- XIE, W. H., XIE, C. L., QU, S. S., YANG, T. Q. (Wuhan Univ., Dept. Chem., Wuhan Peoples R China) Measurements of multiplication rate of bacillus sp NTT-61 growth and study on its thermodynamic properties **Thermochim. Acta** **195** (1992) 297
- XU, M. T., LUNSFORD, J. H. (Texas AM Univ. Syst., Dept. Chem., College Stn., TX 77843 USA) Effect of temperature on methyl radical generation over Sr/La<sub>2</sub>O<sub>3</sub> catalysts **Cat. Lett.** **11** (1991) 295
- YAMAMOTO, M., AKU, H. (Fukuoka Univ., Fac. Pharmaceut. Sci., Dept. Pharmaceut., 8-19-1 Nanakuma, Jonan Ku Fukuoka 81401 Japan) Flow microcalorimetry for human erythrocyte hemolysis induced by ionic drug binding **Thermochim. Acta** **193** (1994) 287
- YAN, X. J., XU, Z. H., DONG, Q. (Chinese Acad. Sci., Inst. Chem. Met., Comp. Chem. Lab, POB 353, Beijing 100080 Peoples R China) Critical temperature correlation using a combined method of group contribution and topological index **Thermochim. Acta** **194** (1992) 289
- YANG, Z. Q., HU, R. Z., XIE, Y. (Xian Modern Chem. Res. Inst., Xian 710061 Peoples R China) A new method to estimate kinetic parameters from a single non-isothermal DSC curve **Thermochim. Acta** **195** (1992) 157
- ZENTGRAF, B. (Inst. Biotechnol., Peremosevstr. 15, O-7050 Leipzig Germany) Bench. scale calorimetry in biotechnology **Thermochim. Acta** **193** (1991) 243