

## Bibliography Section

- ABDELKADER, A., AMMAR, A. A., SALEH, S. I. (Menoufia Univ., Fac. Sci., Dept. Phys., Menoufia Egypt) Thermal behaviour of ammonium dihydrogen phosphate crystals in the temperature range 25-600 degrees C *Thermochim. Acta* 176 (1991) 293
- ABOULGHEIT, A. K. (Egyptian Petr. Res. Inst., Nasr Egypt) Volatility characteristics of petroleum fractions by differential scanning calorimetry *Thermochim. Acta* 176 (1991) 107
- ACREE, W. E., ZVAIGZNE, A. I. (Univ. N Texas, Dept. Chem., Denton TX 76203 USA) Thermodynamic properties of non-electrolyte solutions. 4. Estimation and mathematical representation of solute activity coefficients and solubilities in binary solvents using the NIBS and modified Wilson equations *Thermochim. Acta* 178 (1991) 151
- ADENIS, C., LINDOVIST, O. (Chalmers Univ. Technol., Dept. Inorgan. Chem., S-41296 Gothenburg Sweden) On the ternary system Sn-Te-I investigation of the SnI<sub>2</sub>-Te, TeI<sub>4</sub>-SnI<sub>2</sub> and SnTe-TeI<sub>4</sub> *Thermochim. Acta* 179 (1991) 247
- AHLUWALIA, V. K., KAUR, J., AHUJA, B. S., SODHI, G. S. (Univ. Delhi, Dept. Chem., Delhi 110007 India) Thermal studies on organomercury (II) complexes of 6-thoguanine *Thermochim. Acta* 176 (1991) 321
- ALLAN, J. R., MILBURN, G. H. W., RICHMOND, F., GERRARD, D. L., BIRNIE, J., WILSON, A. S. (Napier Polytech., Dept. Appl. Chem. Phys. Sci., Edinburgh Scotland) Thermal, spectral and magnetic studies of chloro complexes of cobalt, nickel and copper with 4-(butylamino)benzoic acid *Thermochim. Acta* 177 (1991) 213
- ALLAN, J. R., PATON, A. D., TURVEY, K. (Napier Polytech., Dept. Appl. Chem., Phys. Sci., Edinburgh Scotland) Structural, thermal and electrical studies of pyrazine-bridged 5,10,15,20-tetrakis-(4-methoxyphenyl)-21H, 23H-porphine cobalt (II) *Thermochim. Acta* 179 (1991) 17
- ALLAN, J. R., PATON, A. D., TURVEY, K., BLAKE, A. J. (Napier Polytech., Dept. Appl. Chem., Phys. Sci., Edinburgh Scotland) Structural, thermal and electrical studies of pyrazine-2-carboxylic acid 5,10,15,20-tetrakis-(4-methoxyphenyl)-21H, 23H-porphine cobalt (III) *Thermochim. Acta* 176 (1991) 99
- ALLAN, J. R., TURVEY, K. (Napier Polytech., Dept. Appl. Chem., Phys. Sci., Edinburgh Scotland) Thermal, structural and electrical studies of the chloro and bromo complexes of cobalt, copper and zinc with 3-methyl-2-phenylpyridine *Thermochim. Acta* 176 (1991) 89
- ANGOSO, A., MANZANO, J. L., RODRIGUEZ, E. (Univ. Salamanca, Fac. Ciencias Quim., Dept. Quim. Inorgan., E-37008 Salamanca Spain) Preparation and study of 1,8-octamethylenediammonium chloronickelates *Thermochim. Acta* 179 (1991) 195
- BARICCO, M., BATTEZZATI, L., SOLETTA, I., SCHIFFINI, L., COWLAM, N. (Ist. Elettrotecnico, Nazl. Galileo Ferraris, Italy)

- 10125 Turin Italy) Thermal behaviour of Cu-Ti and Cu-Ti-H amorphous powders prepared by ball milling *Mater. Sci. Eng. A* **134** (1991) **1398**
- BASKAKOV, V. Y. Thermodynamic stability in critical point *Zh. Fis. Khim.* **64** (1990) **3237**
- BAURAPENA, M. P., MARTINEZLAPE, M. J., GARCIACLAVEL, M. E. (CSIC, Inst. Edafol. Biol. Vegetal, Serrano 115 Dpto, E-28006 Madrid, Spain) Synthesis and characterization of a hydrated titanium (IV) oxide (French) *Thermochim. Acta* **179** (1991) **89**
- BEBIKH, G. F., SARAEVA, V. P., MURAVIOVA, L. V., PONIZOVTSEV, E. F. (MV Lomonosov State Univ., Chair Chem. Technol., Moscow 117234 USSR) Thermal oxidation of polyisoprene rubber *Vestn. Mosk. Univ. Ser. Khim.* **31** (1990) **570**
- BEEZER, A. E., FORSTER, S., PARK, W. B., RIMMER, G. J., BUCKTON, G. (Univ. Kent, Chem. Lab, Canterbury CT2 7NH Kent England) Solution thermodynamics of 4-hydroxybenzoates in water, 95-percent ethanol-water, 1-octanol and hexane *Thermochim. Acta* **178** (1991) **59**
- BENGTSSON, L. A., FROSTMARK, F., HOLMBERG, B., ULVENLUND, S. (Univ. Lund, Ctr. Chem., POB 124, S-22100 Lund Sweden) Thermodynamics of formation and the structure of polymetal alkaline-earth-metal (II) fluoride complexes in molten-nitrate media *Cryst. Res. Tech.* **26** (1991) **1141**
- BENOIT, R. L., LOUIS, C., FRECHETTE, M. (Univ. Montreal, Dept. Chim., CP 6128, Succ A, Montreal Quebec Canada H3C 3J7) Solution and ionization of some carboxylic acids in water and dimethyl sulfoxide *Thermochim. Acta* **176** (1991) **221**
- BOBROV, P. V., VLASOV, Y. G., KRUCHININ, A. A., TARANTOV, Y. A. Temperature coefficient of a pH-sensitive ion-selective field-effect transistor *J. Appl. Chem.* **63** (1991) **1285**
- BUDKULEY, J. S., VERNEKAR, A. V. (Goa Univ., Dept. Chem., Goa 403005 India) Thermal reactivity of dihydrazinium nitrilotriacetate *Thermochim. Acta* **176** (1991) **339**
- BUHL, J. C. (univ. Munster, Inst. Mineral, Correnstr. 24, D-4400 Munster Fed. Rep. Ger.) synthesis and characterization of the basic and non-basic members of the cancrinite natrodavyne family *Thermochim. Acta* **178** (1991) **19**
- BUSNOT, A., BUSNOT, F., HEMIDY, J. F., LEQUERLER, J. F. (Univ. Caen, Ufr. Sci., Chim. Minerale Bioinorgan. Lab., Esplanade Paix, F-14032 Caen France) Study of copper(II) chloropropionates complexed with imidazole or methyl substituted imidazoles *Thermochim. Acta* **179** (1991) **135**
- CAI, R., SAMULSKI, E. T. (Univ. N Carolina, Dept. Chem., Chapel Hill, NC 27599 USA) New thermotropic liquid crystals derived from thiophenes *Liq. Cryst.* **9** (1991) **617**
- CAKIR, U., ERK, C. (Tec. Univ. Istanbul, Dept. Chem., Maslak Istanbul 80626 Turkey) The complexation of 18-crown-6 with NaCl in dioxane water and determination of equilibrium constants with ion selective electrodes *Thermochim. Acta* **178** (1991) **67**
- CANCELLU, D., MARONGIU, B., PORCEDDA, S. (Univ. Cagliari, Dip. Sci. Chim., Via Osped 72, I-09100 Cagliari Italy) Excess Gibbs free energies of mixtures of substances containing nitrogen groups *Thermochim. Acta* **178** (1991) **33**
- CARDENAS, G., RETAMAL, C., TAGLE, L. H. (Concepcion Univ., Fac. Ciencias, Dept. Quim., Casilla 3C, Concepcion Chile) Thermogravimetric studies of metal poly(methyl methacrylates) *Thermochim. Acta* **176** (1991) **233**
- CEOLIN, R., KHODADAD, P., LAPAGE, F. (Fac. Pharm. Tours, Chim. Phys. Lab., 2 Bis Blvd. Tourelle, F-37042 Tours France) The system D-malic acid  $\alpha$ -citrulline *Thermochim. Acta* **176** (1991) **15**
- CHAKI, T. K., KHASTGIR, D. K. (Indian Inst. Technol., Ctr. Rubber Technol., Kharagpur 721302 W Bengal India) Effect of frequency and temperature on dielectric properties of polystyrene at microwave fre-

- quencies *Angew. Macromol. Chem.* **184** (1991) 55
- CHANG, S. S. (Natl. Inst. Stand. Technol., Mat. Sci. Engn. Lab., Div. Polymers, Gaithersburg MD 20899 USA) Temperature gradient in differential scanning calorimetry *Thermochim. Acta* **178** (1991) 195
- CHAO, J. P., DAI, M. (Henan Inst. Chem., Solut. Chem. Res. Lab, Zhengzhou 45003 Peoples R China) Studies of thermodynamic properties of binary mixtures containing an alcohol. 25. Excess molar enthalpies of alkan-1-ol + methyl ethyl ketone and methyl isobutyl ketone at 298.15 K *Thermochim. Acta* **179** (1991) 257
- CHEE, K. K. (Univ. Malaya, Dept. Chem., Kuala Lumpur, 59100 Malaysia) A study of temperature dependence of thermodynamic interactions in polymer solutions of infinite dilution by equation-of-state theory *Polym. J.* **23** (1991) 321
- CHOUDHURY, N. R., CHAKI, T. K., BHOWMICK, A. K. (Indian Inst. Technol., Ctr. Rubber Technol., Kharagpur 721302 W Bengal India) Thermal characterization of thermoplastic elastomeric-natural rubber polypropylene blends *Thermochim. Acta* **176** (1991) 149
- CIMPOESU, F., ANDRUH, M., SEGAL, E. (Univ. Bucharest, Fac. Chem., Dept. Inorgan. Chem., Str. Dumbrava Rosie 23 Bucharest Romania) Thermal behaviour of complex cation complex anion-type coordination compounds. 5. *Thermochim. Acta* **177** (1991) 93
- COLUSSI, A. J., SANDER, S. P., FRIEDL, R. R. (Caltech., Jet Prop. Lab., Pasadena CA 91109 USA) Thermodynamics of acetylene Vanderwaals dimerization *Chem. Phys. Letts.* **178** (1991) 497
- CREUTZ, C., SCHWARTZ, H. A., WISHART, J. F., FUJITA, E., SUTIN, N. (Brookhaven Natl. Lab., Dept. Chem., Upton NY 11973 USA) Thermodynamics and kinetics of carbon dioxide binding to 2 stereoisomers of a cobalt(I) macrocycle in aqueous solution *J. Amer. Chem. Soc.* **113** (1991) 3361
- CROUSE, K. A., BADRI, M. (Univ. Agr. Malaysia, Dept. Chem., Serdang 43400 Malaysia) Thermal studies on chromium(II) salts *Thermochim. Acta* **177** (1991) 239
- CYGANSKI, A., KOBYLECKA, J. (Tech. Univ. Lodz, Inst. Exptl. Pathol., PL-90924 Lodz Poland) Kinetic parameters of thermal decomposition of thiocyanatobismuthates(III). 2. double salts *Thermochim. Acta* **178** (1991) 321
- CYPRES, R., BRAEKMANDANHEUX, C., DELAUNOIS, C., HALLOIN, V. (Univ. Libre Bruxelles, Fac. Sci. Appl., Serv. Chim. Gen. Carbochim., 50 Ave Fd. Roosevelt, B-1050 Bruxelles Belgium) Aromisation of 1,3-butadiene under pressure *Thermochim. Acta* **177** (1991) 221
- DECANDIA, F., RUSSO, R. (Univ. Salerno, Ist. Ingn. Chim. Alimentare, I-84100 Salerno Italy) Crystallization and melting behaviour of a stereoblock isotactic polypropylene *Thermochim. Acta* **177** (1991) 221
- DEMARCO, D. (Univ. Messina, Inst. Analyt. Chem., Salita Sperone 31, CP 30, I-98166 St Agata Italy) Thermodynamic relationships of complex formation. 1. Non-linear free energy relationships (NLFER) in Ag(I) complex formation in aqueous solutions *Thermochim. Acta* **178** (1991) 203
- DEMSAR, A., BUKOVEC, N., BUKOVEC, P. (E Kardelj Univ. Ljubljana, Dept. Chem. Technol., Ljubljana Yugoslavia) Decomposition kinetics of  $\beta$ -cyclodextrin and inclusion complex of  $\beta$ -cyclodextrin with ibuprofam, 2-(4-isobutylphenyl) propiohydroxamic acid *Thermochim. Acta* **178** (1991) 75
- DENOYEL, R., ROUQUEROL, J. (Ctr. Thermodyn. Microcalorimetrie, 26 Rue 141 Ria, F-13003 Marseille France) Thermodynamic (including microcalorimetry) study of the adsorption of nonionic and anionic surfactants onto silica, kaolin, and alumina *J. Colloid Interface Sci.* **143** (1991) 555
- DEROBERTIS, A., DESTEFANO, C., GIANGUZZA, A. (Univ. Messina, Ist.

- Chim. Analit, Salita Sperone 30, I-98166 St Agata Italy) Salt effects on the protonation of  $\alpha$ -histidine and  $\alpha$ -aspartic acid. A complex formation model *Thermochim. Acta* **177** (1991) 39
- DESHPANDE, D. D., PATTERSON, D., ANDREOLIBALL, L., COSTAS, M., TREJO, L. M. (McGill Univ., Dept. Chem., Montreal Quebec Canada H3A 2K6) Heat capacities, self-association and complex formation in alcohol ester systems *Cryst. Res. Tech.* **26** (1991) 1133
- DJORDJEVIC, N. M. (Sandoz Pharma Ltd., Analyt. Res. Dev., CH-4002 Basel Switzerland) Solubilities of polycyclic aromatic hydrocarbon solids in normal-octadecane *Thermochim. Acta* **177** (1991) 109
- DOLLIMORE, D. (Univ. Toledo, Dept. Chem., Toledo OH 43606 USA) The production of metals and alloys by the decomposition of oxysalts *Thermochim. Acta* **177** (1991) 59
- DOLLIMORE, D., EVANS, T. A. (Univ. Toledo, Dept. Chem., Toledo OH 43606 USA) Thermal decomposition of oxalates. 24. Effect of the sample preparation and environmental atmosphere on the thermal stability of silver oxalate *Thermochim. Acta* **179** (1991) 49
- DOLLIMORE, D., EVANS, T. A. (Univ. Toledo, Dept. Chem., Toledo OH 43606 USA) Thermal decomposition of oxalates. 23. An isothermal kinetic study into the effect of the environmental atmosphere on the thermal decomposition of silver oxalate *Thermochim. Acta* **178** (1991) 263
- DOMANSKA, U., WYRZYKOWSKA-TANKIEWICZ, D. (Warsaw Polytech. Inst., Dept. Phys. Chem., PL-00664 Warsaw Poland) Enthalpies of fusion and solid solid transition of even-numbered paraffins C<sub>22</sub>H<sub>46</sub>, C<sub>24</sub>H<sub>50</sub>, C<sub>26</sub>H<sub>54</sub> and C<sub>28</sub>H<sub>58</sub> *Thermochim. Acta* **179** (1991) 265
- DOROFEEVA, O. V., GURVICH, L. V. (Acad. Sci. USSR, Inst. High Temp., Iz-horskaya, ul 13-19 Moscow 127412 USSR) Thermodynamic properties of linear carbon chain molecules with conjugated triple bonds. 1. Polyacetylenes, H(C=C)<sub>n</sub>H ( $n = 2-6$ ), cyanopolyacetylenes, H(C=C)<sub>n</sub>C=N ( $n = 1-5$ ) and dicyanopolyacetylenes, N=C(C=C)<sub>n</sub>C=N ( $n = 1-4$ ) *Thermochim. Acta* **178** (1991) 273
- DORONINA, V. P., DURASOV, V. B. (Acad. Sci. USSR, Inst. Inorgan. Chem., Novosibirsk USSR) Thermal decomposition of nitroformiate complexes of some transition metales *Izv. Sibir. Otd. Akad. Nauk Khim.* **4** (1990) 52
- DRAGOE, N., ANDRUH, M., SEGAL, E. (univ. Bucharest, Fac. Chem., Dept. Inorgan. Chem., Str. Dumbrava Rosie 23, Bucharest Romania) Thermal behaviour of complex cation complex anion type coordination compounds. 4. *Thermochim. Acta* **176** (1991) 241
- DUNLOP, P. J., BIGNELL, C. M., BELL, T. N. (Univ. Adelaide, Dept. Phys. Inorgan. Chem., Adelaide SA 5000 Australia) The pressure dependence of the thermal diffusion factors of the systems He-normal-propane, He-octafluorocyclobutane (C<sub>4</sub>F<sub>8</sub>), and CH<sub>4</sub>-C<sub>4</sub>F<sub>8</sub> at 300 K *J. Chem. Phys.* **94** (1991) 6211
- EDELmann, R., BARDELMEIER, U., WURFLINGER, A. (Ruhr Univ. Bochum, Inst. Phys. Chem., D-4630 Bochum Fed. Rep. Ger.) Pressure volume temperature data and dielectric properties of liquid and solid 2,2-dimethylbutan-1-ol up to 300 MPa *Cryst. Res. Tech.* **26** (1991) 1149
- ELDIEN, F. A. N. (Univ. Cairo, Fac. Sci., Dept. Chem. Giza Egypt) Analysis of thermogravimetry curves to determine the mechanism of dissociation of 2-thiohydantoin and its derivatives and their metal chelates *Thermochim. Acta* **179** (1991) 323
- ELGHAFFAR, M. A. A., EISHHEREAFY, E. (Natl. Res. Ctr., Dept. Polym. Pigments, Cairo Egypt) Electric studies on some metal biphthalocyanine complexes *Thermochim. Acta* **178** (1991) 257
- FATU, D. (Fac. Chem. Technol., Dept. Phys. Chem. Electrochem. Technol., Blvd. Republicii 13, Bucharest Romania) Factors on which the rate of solid solid reactions depends *Thermochim. Acta* **177** (1991) 15

- FERBINTEANU, M., ANDRUH, M., SEGAL, E. (Univ. Bucharest, Fac. Chem., Dept. Inorgan. Chem., Str. Dumbrava Rosie 23, Bucharest Romania) On the thermal behaviour of 2 coordination compounds of Ni(II) and Co(II) *Thermochim. Acta* **178** (1991) 241
- FRANCESCONI, R., COMELLI, F. (Univ. Bologna, Dip. Chim. G. Ciamician, Via Selmi 2, I-40126 Bologna Italy) Excess enthalpies of binary mixtures containing 1,3-dioxolane and cyclic compounds *Thermochim. Acta* **179** (1991) 149
- FUJIEDA, S., KAWAHITO, J. (Ochanomizu Univ., Fac. Sci., Dept. Chem., Bunkyo Ku, Tokyo 112 Japan) Some improvements in the heat exchange calorimeter for estimation of small heat effects *Thermochim. Acta* **176** (1991) 115
- GABER, M., AYAD, M. M., AYAD, M. I. (Univ. Menoufia, Fac. Sci., Dept. Chem., Shabin Al Kawm Egypt) Synthesis, thermal and electrical studies on zirconyl complexes with Schiff bases derived from 2-hydroxy-1-naphthaldehyde and some aromatic diamines *Thermochim. Acta* **176** (1991) 21
- GANTEAUME, M., COTEN, M., DECRESSAC, M. (Cnrs, Ctr. Thermodyn. Microcalorimetrie, Upr. 7461 26 Rue 141ème Ria, F-13003 Marseille France) Calsol, new solution calorimeter (in French) *Thermochim. Acta* **178** (1991) 81
- GIACOBBE, F. W. (Amer. Air Liquide Inc., Chicago Res. Ctr., Countryside IL 60525 USA) Thermodynamic properties of nitrogen adsorbed on porous glass at cryogenic temperatures *J. Colloid Interface Sci.* **143** (1991) 451
- GOMEZ, E., ESTELA, J. M., CERDA, V. (Univ. Balearic Isl., Fac. Sci., Dept. Chem., E-07071 Palma De Mallorca Spain) A new kinetic thermometric method for the determination of iron traces based on the catalytic action of the FeIII-EDTA complex on the oxydation of hydroxylamine *Thermochim. Acta* **176** (1991) 121
- GOLDBERG, R. N., BELL, D., TEWARI, Y. B., MC LAUGHLIN, M. A. (Natl. Inst. Stand. Technol., Div. Chem. Thermodyn. Gaithersburg, MD MD 20899 USA) Thermodynamics of hydrolysis of oligosaccharides *Biophys. Chem.* **40** (1991) 69
- GOMEZSERRANO, V., ACEDORAMOS, M., LOPEZPEINADO, A. J., VALENZUELA CALAHORRO, C. (Univ. Extremadura, Dept. Quim. Inorgan., E-06071 Badajoz Spain) Stability towards heating and outgassing of activated carbon oxidized in the liquid phase *Thermochim. Acta* **176** (1991) 129
- GOSPODINOV, G. G., KARAIANOVA, V. G. (Higher Inst. Chem. Technol., Dept. Chem., Bourgass Bulgaria) Phase state of tellurites in the In(NO<sub>3</sub>)<sub>3</sub>-Na<sub>2</sub>TeO<sub>3</sub>(K<sub>2</sub>TeO<sub>3</sub>)<sub>2</sub>-H<sub>2</sub>O system *Thermochim. Acta* **176** (1991) 197
- GREENSPAN, D. (Univ. Texas, Dept. Math., Arlington TX 76019 USA) A simple computer approach for determining melting points  $\alpha$  *Thermochim. Acta* **179** (1991) 333
- GROLIER, J. P. E., ROUX, A. H., ROUX-DESGRANDES, G., TOMASZKIEWICZ, I., ZIELENKIEWICZ, W. (Univ. Clermont Ferrand, Thermodyn. Cinet. Chim. Lab., Clermont Ferrand France) Thermochemistry of aqueous solutions of alkylated nucleic acid bases. 7. Apparent molar heat capacities and volumes of aqueous solutions of alkylated derivatives of uracil at 298.15 K *Thermochim. Acta* **176** (1991) 141
- GROTOWSKA, M., WOJCIECHOWSKA, R., WOJICECHOWSKI, W., ZIRKOVIC, Z. D., MIOSAVLJEVIC, N. (Tech. Fac. Bor, YU-19210 Bor Yugoslavia) Thermal decomposition of the oxo-bridged and hydroxo-bridged binuclear chromium(III) complexes. 1. Kinetics and mechanism of the processes *Thermochim. Acta* **176** (1991) 249
- GRUNIN, Y. B., GORDEEV, M. E., VESELOV, L. N., MASLENNIKOV, A. S. (AM Gorki Polytech. Inst., Ioshkar Ola USSR) High-temperature effect on cellulose *Zh. Fis. Khim.* **64** (1990) 3343
- GULER, C. (Univ. Ege, Fac. Sci., Dept. Chem., Izmir Turkey) The sintering kinetics of reaction bonded silicon nitride by using

- non-isothermal technique *Thermochim. Acta* **178** (1991) 99
- GVOZDIC, N. V., MEIER, D. J. (Michigan Molec. Inst., 1910 W St Andrews Rd., Midland MI 48640 USA) On the melting temperature of syndiotactic polystyrene *Polym. Commun.* **32** (1991) 183
- GYORYOVA, K., BALEK, V. (PJ Safarik Univ., Dept. Inorgan. Chem., CS-04154 Kosice Czechoslovakia) Thermal stability of [phenyl 21] + cyano complexes containing silver, chromium and cobalt *Thermochim. Acta* **179** (1991) 109
- HACKENBERG, J., HANACK, M. (Inst. Organ. Chem., Lehrstuhl Organ. Chem. 2, Morgenstelle 18, D-7400 Tubingen 1 Fed. Rep. Ger.) Synthesis and thermal reactions of perfluoroalkylsulphonyl substituted ylides *J. Appl. Chem.* **63** (1991) 470
- HAMED, A. E., KASSEM, M. E., ELOSAIRY, M., RAMADAN, T. A., KANDIL, S. H. (Univ. Alexandria, Inst. Grad. Studies Res. Dept. Mat. Sci., Alexandria Egypt) On the anisotropy of thermal expansion and electrical conductivity in triglycine selenate single crystals *Thermochim. Acta* **179** (1991) 1
- HOHNE, M., HUMMEL, H. J., WANG, Y. X., STUMPP, E. (Tech. Univ. Clausthal, Inst. Anorgan. Analys. Chem., D-3392 Clausthal Zellerfe Fed. Rep. Ger.) Characterization of graphite intercalation compounds by thermogravimetric analysis *Thermochim. Acta* **179** (1991) 201
- HOR, T. S. A., PHANG, L. T. (Natl. Univ. Singapore, Fac. Sci., Dept. Chem., Singapore 0511 Singapore) Substituted metal carbonyls. 17. Thermal decarbonylation and chelation of  $M(CO)_5$  ( $\eta$ -1-dppf) and  $Fe(CO)_4(\eta$ -1-dppf) [where  $M = Cr, Mo, W$  - dppf =  $(Ph_2PC_5H_4)_2Fe$ ] *Thermochim. Acta* **178** (1991) 287
- HOURSTON, D. J., LANE, S., ZHANG, H. X., BOOTSMA, J. P. C., KOETSIER, D. W. (Univ. Lancaster, Sch. Phys. Mat., Ctr. Polym., Lancaster LA1 4YA England) Toughened thermoplastic. 1. The synthesis and use of maleate-modified poly(butylene terephthalate) in polyester rubber blends *Polymer* **32** (1991) 1140
- HUESOURENA, F., MORENOCARRETERO, M. N., SALASPEREGRIN, J. M., ROMEROMOLINA, M. A. (in French) (Univ. Granada, Fac. Cienc. Exptl., Dept. Quim. Inorgan., E-23071 Jaen Spain) Thermal behaviour of metal complexes with isoorotate and 2-thioisoorotate dianions *Thermochim. Acta* **177** (1991) 119
- HWANG, C. J., LEE, J. S., HUANG, C. W. (Chung Yuan Christian Univ., Dept. Chem., Chungli 32023 Taiwan) Computerized analysis of single DTA curve data by a multiple linear regression method for the evaluation of nonisothermal kinetic parameters *Thermochim. Acta* **177** (1991) 253
- IRLE, E., BLACHNIK, R., GATHER, B. (Univ. Osnabruck, Barbarastr. 7, D-4500 Osnabruck Fed. Rep. Ger.) The phase diagrams of  $Na_2O$  and  $K_2O$  with  $Nb_2O_5$  and the ternary system  $Nb_2O_5-Na_2O-Yb_2O_3$  *Thermochim. Acta* **179** (1991) 157
- ISHIGURO, S., TAKAHASHI, R. (Tokyo Inst. Technol., Dept. Electr. Chem., 4259 Nagatsuta Cho, Midori Ku. Yokohama Kanagawa 227 Japan) Thermodynamics of chloro complexation of lanthanide(III) ions in  $N,N$ -dimethylformamide *Inorg. Chem.* **30** (1991) 1854
- ISHII, T., NAKARO, S., YADA, A. (Hokkaido Univ., Fac. Engn., Dept. Appl. Chem., Sapporo Hokkaido 060 Japan) Emanation thermal analysis studies of surface layer of iron oxide powders prepared by various grinding treatments *Thermochim. Acta* **178** (1991) 109
- ISHII, T., TAKEMURA, T., NAKANO, S., YADA, A. (Hokkaido Univ., Fac. Engn., Dept. Appl. Chem., Sapporo Hokkaido 060 Japan) Emanation thermal analysis studies of surface layer of aluminium oxide powders prepared by various grinding and sieving treatments *Thermochim. Acta* **178** (1991) 117
- IVANOVA, A. S., LITVAK, G. S., MOROZ, E. M., KRUYKOVA, G. N., MALACHOV, V. V. (Acad. Sci. USSR, Inst. Catal.,

- Novosibirsk USSR) The influence of heat treatment conditions on the dehydratation processes of aluminium hydroxide *Izv. Sibir. Otd. Akad. Nauk. Khim.* **4** (1990) 62
- JARA, R., ESTELA, J. M., CERDA, V. (Univ. Balear Isl., Dept. Chem., E-07071 Palma De Mallorca Spain) Analytical properties of the amidoxime group — Spectrophotometric and thermometric behaviour of ethanediamidoxime and its Cu(II) and U(VI) complexes *Thermochim. Acta* **177** (1991) 229
- JOHN, R., NEELAKANTAN, N. R., SUBRAMANIAN, N. (Indian Inst. Technol., Dept. Chem. Engn., Madras 600036 Tamil Nadu India) Thermokinetics and rheological properties of polyurethane reaction involving a new polyol *Thermochim. Acta* **179** (1991) 281
- JU, G. Z., BIAN, W. S. (Shandong Univ., Inst. Theoret. Chem., Jinan Peoples R China) Theoretical thermochemistry. Entropies and heat capacities for series of organosilicon compounds. 2. *Thermochim. Acta* **176** (1991) 259
- KADOURA, J., CHAUVET, A., TEROL, A., MASSE, J. (Fac. Pharm. Montpellier, Chim. Gen. Minerale Lab, Ave Charles Flahaut, F-34060 Montpellier France) Thermoanalytic and spectral study of benzodiazepins. 1. Lorazepam (in French) *Thermochim. Acta* **176** (1991) 61
- KAGEMOTO, A., OKADA, Y., IRIE, H., OKA, M., BABA, Y. (Osaka Inst. Technol., Dept. Gen. Educ., Chem. Lab, Asahi Ku Osaka 535 Japan) Thermal and optical properties of liquid crystal formation in an equimolar mixture of poly(A) and poly(U) by simultaneous measurement of differential thermal analysis and laser transmittance *Thermochim. Acta* **176** (1991) 1
- KANBER, S. A., IBRAHEIM, A. H., JAMIL, L. A., BARBOOTI, M. M. (Univ. Slahudin, Coll. Sci., Dept. Chem., Arbil Iraq) Thermoanalytical investigations on heterocyclic organic compounds. 6. Synthesis, characterization and thermal decomposition of 1,4-bis(para-fluorobenzene sulphonyl)-2-alkoxy tetrahydropyrazines *Thermochim. Acta* **177** (1991) 329
- KERRIDGE, D. H., SHAKIR, W. M. (Univ. Southampton, Dept. Chem., Southampton SO9 5NH, Hants England) Molten lithium nitrate potassium nitrate eutectic. The reaction of compounds of indium *Thermochim. Acta* **178** (1991) 295
- KORNAS, V., VONDERGATHEN, V. S., BORNEMANN, T., DOBELE, H. F., PROSZ, G. (Univ. Gesamthsch. Essen, Inst. Laser Plasmaphys., D-4300 Essen 1 Fed. Rep. Ger.) Temperature measurements by H<sub>2</sub>-CARS in the reactive zone of a plasma test reactor for hydrocarbon synthesis *Plasma Chem. Plasma Proc.* **11** (1991) 171
- KORNILOVA, E. N., KUTSENOK, I. B., GLEZER, A. M., GEIDERIKH, V. A. (MV Lomonosov State Univ., Dept. Chem., Moscow 117234 USSR) Thermodynamic properties of amorphous alloys of the Fe-Cr-B system *Zh. Fis. Khim.* **64** (1990) 3203
- KOSTYUK, B. G. (MV Lomonosov State Univ., Dept. Chem., Moscow 117234 USSR) Enthalpy of solution of Al(IO<sub>3</sub>)<sub>3</sub> 3.2H<sub>2</sub>O monocrystal in water at 298.15 K *Zh. Fis. Khim.* **64** (1990) 3396
- KOSYAKOV, V. I., SHESTAKOV, V. A., PAASONEN, V. M. (Acad. Aci. USSR, Inst. Inorgan. Chem., Novosibirsk USSR) The thermodynamic properties of the KBr-NaBr system *Izv. Sibir. Otd. Akad. Nauk. Khim.* **4** (1990) 33
- KOWALSKI, B. (Agr. Univ. Warsaw, Dept. Food. Technol., 26-30 Rakowiecka Str., PL-02528 Warsaw Poland) Evaluation of the stability of some antioxidants for fat-based foods *Thermochim. Acta* **177** (1991) 9
- KRUGER, F. W. H., MCGILL, W. J. (Univ. Port Elizabeth, POB 1600, Port Elizabeth 6000 South Africa) A DSC study of curative interactions. 1. The interaction of ZnO, sulfur, and stearic acid *J. Appl. Polym. Sci.* **42** (1991) 2643
- KRUGER, F. W. H., MCGILL, W. J. (Univ. Port Elizabeth, POB 1600, Port Elizabeth 6000 South Africa) A DSC study of curative interactions. 2. The interaction of 2,2'-dibenzothiazole with ZnO, sulfur, and

- stearic acid *J. Appl. Polym. Sci.* **42** (1991) 2651
- KRUGER, F. W. H., MCGILL, W. J. (Univ. Port Elizabeth, POB 1600, Port Elizabeth 6000 South Africa) A DSC study of curative interactions. 3. The interaction of TMTM with ZnO, sulfur, and stearic acid *J. Appl. Polym. Sci.* **42** (1991) 2661
- KRUGER, F. WH., MCGILL, W. J. (Univ. Port Elizabeth, POB 1600, Port Elizabeth 6000 south Africa) A DSC study of curative interactions. 4. The interaction of tetramethylthiuram disulfide with ZnO, sulfur and stearic acid *J. Appl. Polym. Sci.* **42** (1991) 2669
- KUANYSHBAEV, T., VOROBEV, A. F., MONAENKOVA, A. S., KOZER, B. E. (DI Mendeleev Chem. Technol., Inst., Moscow USSR) Enthalpies of solution and solvation of sodium, potassium and rubidium iodides and bromides in sulfolane *Zh. Fis. Khim.* **64** (1990) 3398
- LAMPARCZYK, H., MISZKIEL, M., WESOLOWSKI, M. (Med. Acad. Gdansk, Fac. Pharm., K Marksza 107, PL-80416 Gdansk Poland) Thermoanalytical and gas chromatographic evaluation of wool wax alcohols supported by principal component analysis *Thermochim. Acta* **179** (1991) 177
- LANE, S. I., OEXLER, E. V., STARICCO, E. H. (Natl. Univ. Cordoba, Fac. Ciencias Quim., Invest. Fis. Quim. Cordoba, Dept. Fis. Quim., Suc 16 cc 61, RA-5016 Cordoba Argentina) The gas phase reaction of CF<sub>3</sub> radicals with C<sub>6</sub>F<sub>5</sub>H in the temperature range 373-658 K *Int. J. Chem. Kin.* **23** (1991) 361
- LEBEDEV, N. I., MIKHALENKO, I. I., KUZHEL, L. M., YAGODOVSKII, V. D. (Patrice Lumumba Peoples Friendship Univ., Moscow USSR) Effect of small quantities of sulfur adsorbed on nickel surface on low-temperature methane adsorption *Zh. Fis. Khim.* **64** (1990) 3365
- LEBEDEV, N. I., MIKHALENKO, I. I., YAGODOVSKII, V. D. (Patrice Lumumba Peoples Friendship Univ., Moscow USSR) Interaction of methane with nickel films at high temperatures *Zh. Fis. Khim.* **64** (1990) 3362
- LEE, C. H., FUKUNAGA, T., MIZUTANI, U. (Nagoya Univ., Dept. Crystalline Mat. Sci., Nagoya 46401 Japan) Temperature dependence of mechanical alloying and grinding in Ni-Zr, Cu-Ta and Fe-B alloy systems *Mater. Sci. Engn. A* **134** (1991) 1334
- LICHANOT, A. (Ctr. Univ. Rech. Sci. Pau, Chim. Struct. Lab, Ura 474, Ave Univ., F-64000 Pau France) Heat capacities of fluoroaniline, fluorophenol and difluorobenzene in condensed phase *Thermochim. Acta* **177** (1991) 265
- LIU, J. X., GAO, X. Y., ZHANG, T., LIN, L. W. (Acad. Sinica, Dalian Inst. Chem. Phys., Dalian Peoples R China) Thermoanalytical studies of carbon deposition on Pt/Al<sub>2</sub>O<sub>3</sub> and Pt-Sn/Al<sub>2</sub>O<sub>3</sub> catalysts for dehydrogenation of butane in the presence of hydrogen *Thermochim. Acta* **179** (1991) 9
- LIU, J. X., XIE, Y. L., GAO, X. Y., YANG, L. X. (Acad. Sinica, Dalian Inst. Chem. Phys., Dalian Peoples R China) Determination of the dispersity of metal on Ir/Al<sub>2</sub>O<sub>3</sub> catalyst by thermogravimetry *Thermochim. Acta* **178** (1991) 1
- LIU, J. X., YANG, L. X., JIANG, X. Z. (Acad. Sinica, Dalian Inst. Chem. Phys., Dalian Peoples R China) A study of the effect of calcination temperature on the interaction between the active component and the carrier of a catalyst using thermoanalysis and X-ray diffraction *Thermochim. Acta* **178** (1991) 9
- LU, Z. R., YANG, L. (Suzhou Univ., Cent. Lab, Suzhou 215006 Peoples R China) A DSC study of a new series of liquid crystals-2-(4-alkoxybenzene)-6-substituted benzothiazoles *Thermochim. Acta* **178** (1991) 305
- LUBKOWSKI, J., DOKURNO, P., BLAZEJOWSKI, J. (Univ. Gdansk, Inst. Chem., PL-80952 Gdansk Poland) The electrostatic energy of iodide salts of mono-nitrogen organic bases *Thermochim. Acta* **176** (1991) 183
- MAMONTOV, M. N., VASSILIEV, V. P. (Univ. Lomonosov, Thermodyn. Chim. Lab,

- Moscow USSR) Thermodynamic analysis of CD-Zn alloy. Partial pressures and thermodynamic properties of solid and liquid zinc solutions (in French) *Thermochim. Acta* **179** (1991) 25
- MANTHIRAM, A., GOODENOUGH, J. B. (Univ. Texas, Ctr. Mat. Sci. Engn., Austin TX 78712 USA) Thermal expansion mismatch and intergrowth types in the system La<sub>2-y</sub>NdyCuO<sub>4</sub>. *J. Solid State Chem.* **92** (1991) 231
- MARTINEZLOPE, M. J., GARCIACLAVEL, M. E., CASAISALVARE, M. T. (CSIC, Inst. Edafol Biol. Vegetal, Serrano 115 Dpdo, E-28006 Madrid Spain) Solubilization reaction of the alumina from kaolin by solid state reaction *Thermochim. Acta* **177** (1991) 77
- MGELADZE, B. M., PAPAVA, G. S., PKHAKADZE, N. S., KVANTRISHVILI, G. E., DOKHTURSHVILI, N. S., MAISURADZE, N. A. (PG Metikishvili Phys. Organ. Chem. Inst., Tbilisi 380086 Georgia USSR) Thermal conversion of filled polymer composition of aminoplast *Acta Polym.* **42** (1991) 89
- MIKHAIL, S. A., TURCOTTE, A. M., McNAMARA, V. M. (Energy Mines Resources Canada, Canmet., Mineral Sci. Lab, Ottawa Ontario Canada K1A OG1) A thermoanalytical study of the decomposition of a cyanide precipitate in inert and reducing atmospheres *Thermochim. Acta* **178** (1991) 213
- MIKROYANNIDIS, J. A. (Univ. Patras, Dept. Chem., Chem. Technol. Lab, GR-26110 Patras Greece) Heat resistant matrix resins based on addition-type bisimidobenzoimidazoles *Eur. Polym. J.* **27** (1991) 199
- MITRA, S., SINGH, L. K. (Manipur Univ., Dept. Chem., Cachipur Imphal 795003 India) Thermal investigation and stereochemical studies of some cyclic diamine complexes of nickel(II), zinc(II) and cadmium(II) in the solid state *Thermochim. Acta* **176** (1991) 327
- MONDIEING, D., HOUSTY, J. R., HAGET, Y., CUEVASDIARTE, M. A., OONK, H. A. J. (Univ. Bordeaux 1, Crist. Phys. Cryst. Lab, Cnrs, Ura 144, F-33405 Talence France) The system 1,2,4,5-tetrachlorobenzene + 1,2,4,5-tetrabromobenzene. 1. Experimental phase diagram (93-460 K) *Thermochim. Acta* **177** (1991) 169
- MORALES, J. J. (Univ. Extremadura, Fac. Cienc., Dept. Fis., E-06071 Badajoz Spain) Temperature distribution in plastic and in iron. Comparative study and application *Thermochim. Acta* **178** (1991) 51
- MOUSA, M. A. (Benha Univ., Fac. Sci., Dept. Chem., Benha Egypt) Kinetic studies on the thermal decomposition of  $\gamma$ -irradiated and unirradiated cobalt cronato complex *Thermochim. Acta* **176** (1991) 57
- MURALEEDHARAN, R. V. (Bhabha Atom Res. Ctr., Div. Met., Bombay 400085 India) The effect of temperature lag on activation energy determined by non-isothermal analysis *Thermochim. Acta* **179** (1991) 341
- NAGARAJAN, K., BABU, R., MATHEWS, C. K. (Indira Gandhi Ctr. Atom Res., Radiochem. Programme, Kalpakkam 603102 Tamil Nadu India) Enthalpy increments of BaZrO<sub>3</sub> and SrZrO<sub>3</sub>. A reply to the comments to Cordfunke and Konings *Thermochim. Acta* **179** (1991) 337
- NAGASE, K., YOKOBAYASHI, H., MURAISHI, I., KIKUCHI, M. (Tohoku Univ. Coll. Gen. Educ., Sendai Miyagi 980 Japan) Comparative studies between the thermal decomposition reactions of lanthanide(III) oxalates and malonates. 1. The reaction processes of Eu<sub>2</sub>O<sub>3</sub> × 3.10H<sub>2</sub>O and Eu<sub>2</sub>mal 3.6H<sub>2</sub>O *Thermochim. Acta* **177** (1991) 273
- NAGATA, I., MIYATA, S. (Kanazawa Univ., Dept. Chem. Chem. Engn., Div. Phys. Sci., Kodatsuno 2-40-20 Kanazawa Ishikawa 920 Japan) Thermodynamics of tautomeric solutions. Vapour liquid equilibrium for acetylacetone non-associating component mixtures *Thermochim. Acta* **177** (1991) 129
- NAIR, S. M. K., JACOB, P. D. (Univ. Calicut, Dept. Chem., Calicut 673635 Kerala India) Thermal decomposition of gamma-irradiated barium bromate *Thermochim. Acta* **179** (1991) 273

- NAKAI, H., TAMURA, K., OGAWA, H., MURAKAMI, S., TOSHIYASU, Y. (Osaka City Univ., Fac. Sci., Dept. Chem., 3-3-138 Sugimoto, Sumiyoshiku Osaka 558 Japan) Thermodynamic properties of mixtures of a dioxanone isomer-normal-octane at 298.15 K. 2. Excess molar volumes and excess isentropic and isothermal compressibilities (measurements of density and speed of sound) *Thermochim. Acta* **177** (1991) 317
- NEDELKO, V. V., ROSHCHUPKIN, V. P., KURMAZ, S. V., LARIKOVA, T. S., LESNIKOVICH, A. I., IVASHKEVICH, O. A., LEVCHIK, S. V., BOLVANOVICH, E. E., GAPONIK, P. N. (Byelorussian State Univ., Phys. Chem., Problems Res. Inst., Minsk 220080 USSR) Thermal decomposition of tetrazole-containing polymers. 2. Thermolysis of poly-2-tert-butyl-5-vinyl-tetrazole *Thermochim. Acta* **179** (1991) 209
- NIETO, J. M., PENICHECOVAS, C., PADRON, G. (Univ. Havana, Fac. Chem., Havana 10400 Cuba) Characterization of chitosan by pyrolysis mass spectrometry, thermal analysis and differential scanning calorimetry *Thermochim. Acta* **176** (1991) 63
- NISHIMOTO, Y., ICHIMURA, Y., KINOSHITA, R., TERAMOTO, Y., YOSHIDA, H. (Kanagawa Univ., Dept. Chem., Hiratsuka, Kanagawa 25912 Japan) Heat capacity measurement by heat-flux-type DSC on cooling and heating cycles at low scan rates *Thermochim. Acta* **179** (1991) 117
- NOVOSELOV, I. V., KOROBENIKOVA, V. N., SANGALOV, Y. A., KAZAKOV, V. P. (Acad. Sci. USSR, Bashkir Sci. Ctr., Inst. Chem., Ufa USSR) Thermoluminescence of a polyethylene surface after plasma treatment with a high-frequency glow discharge *Bull. Acad. Sci. USSR* **39** (1990) 1578
- OGORODNIKOV, AL. L., KATSNELSON, M. G., PINSON, V. V., LEVIN, Y. V. Thermodynamic properties of the butyraldehyde cyclic-trimer system *J. Appl. Chem.* **63** (1990) 1225
- OKADA, M., TOCHIHARA, H., MURATA, Y. (Univ. Tokyo, Inst. Solid State Phys., 7-22-1 Roppongi, Minato Ku Tokyo 106 Japan) Temperature dependence of potassium adsorption on Ag(001) *Surface Sci.* **245** (1991) 380
- OPRESNIK, M., SEBENIK, A., ZIGON, M., OSREDKAR, U. (Boris Kidric Inst. Chem., YU-61115 Ljubljana Yugoslavia) The curing kinetics of brominated epoxy resins *Thermochim. Acta* **178** (1991) 127
- PACEWSKA, B., PYSIAK, J. (Warsaw Polytech. Inst., Inst. Chem., Plock Branch, PL-09400 Plock Poland) Thermal decomposition of basic aluminium potassium sulphate (BAPS) in hydrogen atmosphere *Thermochim. Acta* **179** (1991) 187
- PASZTOR, A. J., LANDES, B. G., KARJALA, P. J. (Dow Chem. Co. USA, Anal. Sci. 1897, Midland MI 48667 USA) Thermal properties of syndiotactic polystyrene *Thermochim. Acta* **177** (1991) 187
- PATIL, K. R., PATHAK, G., PRADHAN, S. D. (Natl. Chem. Lab, Poona 411008, Maharashtra India) Excess enthalpies and excess volumes of mixing for isomeric butanol acetone systems at 303.15 K *Thermochim. Acta* **177** (1991) 143
- PERNG, J. C., LEE, J. S., LIN, T. J., HUANG, C. W. (Chung Yuan Christian Univ., Dept. Chem., Chungli 32023 Taiwan) Kinetic studies on crystallization of CaO·P<sub>2</sub>O<sub>5</sub> glass by differential thermal analysis *Thermochim. Acta* **177** (1991) 1
- PIKKARDINEN, L. (Univ. Oulu, Dept. Chem., SF-90570 Oulu Finland) Excess enthalpies of binary solvent mixtures of methanol, ethanol, and 1-propanol with formamide, N-methylformamide and N,N-dimethylformamide *Thermochim. Acta* **178** (1991) 311
- PLESCH, G., HANIC, F., PUTYERA, K. (Slovak Acad. Sci., Inst. Inorgan. Chem., CS-80936 Bratislava Czechoslovakia) Study of copper-chromium oxide catalyst. 4. Thermal decomposition of basic copper(II)-amine ammonium chromate *Thermochim. Acta* **176** (1991) 267

- RAMADAM, R. M., ELATRASH, A. M., IBRAHIM, A. M. A., ETAIW, S. E. H. (Teachers Jr. Coll., Dept. Chem., POB 1144 Tabuk Saudi Arabia) The direct current electrical conductivity of the charge transfer complexes of some thiazoles and benzothiazoles with certain dinitrobenzene derivatives *Thermochim. Acta* **178** (1991) 331
- REDDY, C. G., REDDY, K. N., REDDY, M. M. (Osmania Univ., Dept. Phys., Hyderabad 500007 Andhra Pradesh India) Low-temperature thermoluminescence in KBr: Y crystals *Cryst. Res. Tech.* **26** (1991) K42
- RODANTE, F., FANTAUZZI, F. (Univ. Rome La Sapienza, Dip. Ingn. Chim. Mat. Mat. Prime Metallurgia, I-00161 Rome Italy) Thermodynamics of dipeptides in water. 3. Strengthening and weakening effects of different size chains on the free  $\alpha$ -amino and free  $\alpha$ -carboxyl groups *Thermochim. Acta* **176** (1991) 277
- RODANTE, F., FANTAUZZI, F. (Univ. Rome La Sapienza, Dip. Ingn. Chim. Mat. Mat. Prime Metallurgia, I-00161 Rome Italy) Calorimetric analysis of the protonation process for 3-arylimino-3H-indole N-oxides and N,N'-dioxides in acetonitrile *Thermochim. Acta* **178** (1991) 185
- RODGERS, S. L., COOLIDGE, M. B., LAUDERDALE, W. J., SHACKELFORD, S. A. (USAF, Serv. Command, Astronaut Lab, Edwards Afb, CA 93523 USA) Comparative mechanistic thermochemical decomposition analyses of liquid hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) using the kinetic deuterium isotope effect approach *Thermochim. Acta* **177** (1991) 151
- ROY, R. J., KIPOUROS, G. J. (Noranda Minerals, Matagami Div., Matagami, Quebec Canada Joy 2AQ) Estimation of vapour pressures of neodymium trichloride hydrates *Thermochim. Acta* **178** (1991) 169
- RUBIERA, F., FUERTES, A. B., PIS, J. J., ARTOS, V., MARBAN, G. (CSIC, Inst. Nacl. Carbon, Apdo 73, E-33080 Oviedo Spain) Changes in textural proper- ties of limestone and dolomite during calcination *Thermochim. Acta* **179** (1991) 125
- RUOSTESUO, P., LIIASLEPISTO, R. (Univ. Oulu, Dept. Chem., SF-90570 Oulu Finland) Thermodynamic and spectroscopic properties of phosphorous compounds. 2. Excess volumes and excess dielectric properties of binary mixtures of trimethylphosphate with dichloromethane and 1,2-dichloroethane *Thermochim. Acta* **178** (1991) 135
- SABBAH, R., AN, X. W. (Cnrs, Ctr. Thermodyn. Microcal., 26 Rue 141ème Ria, F-13003 Marseille France) Thermodynamic analysis of chlorobenzenes (in French) *Thermochim. Acta* **179** (1991) 81
- SABBAH, R., ELWATIK, L. (Cnrs, Ctr. Thermodyn. Microcalorimetrie, 26 Rue 141ème Ria, F-13003 Marseille France) Thermodynamic analysis of the phenazine molecule (in French) *Thermochim. Acta* **176** (1991) 163
- SABBAH, R., XU, W. A. (Cnrs, Ctr. Thermodyn. Microcalorimetrie, 26 Rue 141ème Ria, F-13003 Marseille France) Enthalpies of fusion and sublimation of the hexachlorocyclohexane  $\gamma$ -isomer (in French) *Thermochim. Acta* **178** (1991) 339
- SAITO, A. (Tokyo Gakugei Univ., Dept. Chem., Koganei, Tokyo 184 Japan) Oxidation of ammonia evolved by thermal decomposition of CO(III) ammine complexes *Thermochim. Acta* **177** (1991) 197
- SALINAS, F., VIDAL, J. L. M., OCANA, D. C., ALVAREZ, I. P. (Univ. Extremadura, Fac. Sci., Dept. Analyt. Chem., E-06071 Badajoz Spain) Thermal and spectroscopic study of the complexes formed between N-phenyl-O-acetylmandelohydroxamic acid and vanadium(V) *Thermochim. Acta* **179** (1991) 171
- SALLAM, S. A., ELWAFA, O. A., ORABI, A. S., ELSHETARY, B. A. (Suez Canal Univ., Fac. Sci., Dept. Chem., Ismailia Egypt) Complexes of some trivalent lanthanides with ethylcyanopyrrolidylhydrazonoacetate and their hydrazides. Stability constants and thermodynamic functions *Thermochim. Acta* **177** (1991) 83

- SALMAN, S. R., HARRIS, R. K., LINDON, J. C. (Univ. Baghdad, Coll. Sci., Dept. Chem., Jadriya Iraq) An investigation of solid-state phase transitions in 1-adamantanone and 2-adamantanone by C-13 CP-MAS NMR *Thermochim. Acta* **179** (1991) 295
- SAVOSTYANOVA, A. F., RAKHLIN, M. Y., DYADENKO, A. I., ZOKOLODYAZHNAYA, O. V. (TG Shevchenko State Univ., Kiev Ukraine USSR) Thermoanalytical study of diethyl-dithiocarbanate complexes of lanthanum(III) and samarium(III) *Ukr. Khim. Zh.* **56** (1990) 1130
- SCHWARZ, F. P. (Nat'l. Inst. Stand. Technol., Ctr. Adv. Res. Biotechnol., 9600 Gudelsky Dr, Rockville MD 20850 USA) Biological thermodynamic data for the calibration of differential scanning calorimeters. Dynamic temperature data on the gel to liquid crystal phase transition of dialkylphosphatidylcholine in water suspensions *Thermochim. Acta* **177** (1991) 285
- SEVRUK, V. M., SIMIRSKII, V. V., KABO, G. Y., KOZYRO, A. A., KRASULIN, A. P. (VI Lenin State Univ., Phys. Chem. Problems Res. Inst., Minsk Belorussia USSR) Calorimetric nucleus for computation of evaporation and sublimation enthalpies in MID-200 calorimeter *Zh. Fis. Khim.* **64** (1990) 3402
- SHAPIRO, R. N., KRAEV, Y. L. Selection of optimal catalyst distribution and temperature gradients in adiabatic reforming reactors from the results of an isothermal experiment *J. Appl. Chem. USSR* **63** (1990) 1212
- SHEN, S. M., LEU, A. L., YEH, H. C. (Chung Cheng Inst. Technol., Dept. Appl. Chem., Tachi 33509 Taiwan) Thermal characteristics of polyurethane PEG and BDNPA F-blends *Thermochim. Acta* **176** (1991) 75
- SHEN, S. M., LEU, A. L., YEH, H. C. (Chung Cheng Inst. Technol., Dept. Appl. Chem., Tachi 33509 Taiwan) Evaluation method for the effect of salts on the elimination of secondary flames of energetic materials by differential scanning calorimetry *Thermochim. Acta* **177** (1991) 23
- SHUKLA, J. P., ARORA, S. K. (Bhabha Atom Res. Ctr., Div. Radiochem., Bombay 400085 India) Proton ligand ionization equilibria of 2,3-dimethyl-1-phenylpyrazol-5-one in mixtures of water and dioxane. A thermodynamic study *Thermochim. Acta* **179** (1991) 301
- SILVA, C. M. P., DELIMA, M. C. P., OLIVEIRA, C. R., CARVALHO, A. P. (Univ. Coimbra, Ctr. Cell. Biol., Dept. Zool. P-3409 Coimbra Portugal) A flow microcalorimetric study of the inhibition of acetylcholinesterase by catecholamine derivatives *Thermochim. Acta* **179** (1991) 221
- SLANINA, Z. (Czechoslovak Acad. Sci., J. Heyrovsky Inst. Phys. Chem. Electrochem., Dolejskova 3, CS-18223 Prague 8 Czechoslovakia) Multimolecular clusters and their isomerism. 47. Molecular thermodynamics of free internal rotation versus harmonic torsional vibration. Formation of the complex Cl<sub>2</sub>-HF(g) *Thermochim. Acta* **178** (1991) 143
- SLANINA, Z., ADAMOWICZ, L. (Czechoslovak Acad. Sci., J. Heyrovsky Inst. Phys. Chem. Electrochem., Dolejskova 3, CS-18223 Prague 8 Czechoslovakia) Temperature isomeric interplay in the 2-pyridone 2-hydroxypyridine system. Thermodynamically consistent treatment *Thermochim. Acta* **177** (1991) 101
- SNIGIREVA, E. M., BEREZOVSII, G. A., TSIRELNIKOV, V. I. (Acad. Sci. USSR, Inst. Inorgan. Chem., Novosibirsk USSR) Calorimetry and thermodynamic functions of crystalline lower titanium chlorides at 5-315 K temperature range *Zh. Fis. Khim.* **64** (1990) 3370
- SOEJIMA, H., NAKAI, H., TAMURA, K., OGAWA, H., MURAKAMI, S., TOSHIYASU, Y. (Osaka City Univ., Fac. Sci., Dept. Chem., 3-3-138 Sugimoto, Sumiyoshi Ku, Osaka 558 Japan) Thermodynamic properties of mixtures of a dioxanone isomer-normal-octane at 298.15 K. 1. Excess enthalpies and heat capacities *Thermochim. Acta* **177** (1991) 305

- SOMAIAH, K., VEERESHAM, P. (Osmania Univ., Dept. Phys., Hyderabad 500007 Andhra Pradesh India) Thermally stimulated luminescence of  $K_2MgF_4$  *Cryst. Res. Tech.* **26** (1991) K29
- SPACU, P., BREZEANU, M., PATRON, L., CONTESCU, A., CRISAN, D., SEGAL, E. (Univ. Bucharest, Dept. Inorg. Chem., Str. Dumbrava Rosie 23, Bucharest Romania) Coordination compounds as raw materials for mixed oxides. 9. Thermal decomposition of some copper lanthanide mandelate complexes *Thermochim. Acta* **178** (1991) 231
- SRINIVASAN, R., NAMBI, P. (Univ. Alaska, Dept. Chem., Anchorage AK 99508 USA) Thermodynamic parameters for the glutamate dehydrogenase catalyzed- $\alpha$ -imino acid  $\alpha$ -amino acid interconversion *Biophys. Chem.* **40** (1991) 81
- SUKHUSHINA, I. S., VASILEVA, I. A. (MV Lomonosov State Univ., Dept. Chem., Moscow 117234 USSR) Thermodynamic properties of europium oxides *Zh. Fis. Khim.* **64** (1990) 3218
- SUN, X. D., LU, W. Q., LIU, Y., XU, J. H., CHANG, Y. H. (Tsing Hua Univ., Dept. Chem., Beijing 100084 Peoples R China) Study of the association of different normal-alkanols in normal-alkanes using infrared spectroscopy *Thermochim. Acta* **176** (1991) 305
- SURI, S. K., MOKHTAR, R. A. (Ind. Res. Ctr., Tripoli Libya) Materials characterization by combined thermovoltaic detection (TVD) and thermal analysis (DTA) techniques *Thermochim. Acta* **176** (1991) 285
- TAGLE, L. H., DIAZ, F. R. (Catholic Univ. Chile, Fac. Quim., Casida 6177, Santiago Chile) Thermogravimetric analysis of copoly (carbonate-thiocarbonate)s *Thermochim. Acta* **176** (1991) 173
- TAKEZAWA, Y., TANNO, S., TAKETANI, N., OHARA, S., ASANO, H. (Hitachi Ltd. Hitachi Res. Lab, 4026 Kuji Cho, Hitachi, Ibaraki 31912 Japan) Analysis of thermal degradation for plastic optical fibers *J. Appl. Polym. Sci.* **42** (1991) 2811
- TEICA, D. T., SEGAL, E., ANDRUH, M. (Univ. Bucharest, Fac. Chem., Dept. Phys., Minato Ku, Tokyo 106 Japan) On the thermal decomposition of some coordination compounds of copper(II) with benzoylpyridine *Thermochim. Acta* **178** (1991) 249
- TEWARI, Y. B., GOLDBERG, R. N. (Natl. Inst. Stand. Technol., Div. Chem. Thermodyn., Gaithersburg MD 20899 USA) Thermodynamics of hydrolysis of disaccharides-lactulose,  $\alpha$ -D-melibiose, palatinose, D-trehalose, D-turanose and 3- $\alpha$ -D-galactopyranosyl -D-D-arabinose *Biophys. Chem.* **40** (1991) 59
- TRESZCZANOWICZ, A. J., BENSON, G. C. (Univ. Ottawa, Dept. Chem. Engn., 770 King Edward Ave, Ottawa Ontario Canada K1N 9B4) Excess volumes of cycloalkanol-cycloalkane binary systems in terms of an associated solution theory with a flory equation of state contribution *Thermochim. Acta* **179** (1991) 39
- URBANOVICI, E., SEGAL, E. (Res. Inst. Electrotechnics, Sfintu Gheorghe Branch, str. Jozsef Attila 4, Sfintu Gheorghe Romania) Some problems concerning the temperature integral in non-isothermal kinetics. 2. A new criterion to compare the accuracy of various approximations. A new 3rd order rational approximation *Thermochim. Acta* **178** (1991) 223
- VERCESI, G. P., ROLEWICZ, J., COMINELLIS, C., HINDEN, J. (Swiss Fed. Inst. Technol., Inst. Chem. Engn., CH-1015 Lausanne Switzerland) Characterization of DSA-type oxygen evolving electrodes. Choice of base metal *Thermochim. Acta* **176** (1991) 31
- VICENTINI, G., ZINNER, L. B., CHAPARRO, R. H., DUNSTAN, P. O. (Univ. Sao Paulo, Inst. Quim., CP 20780, Sao Paulo 01498 Brazil) Synthesis, properties and thermal study of 4-picoline-N-oxide(4 pic NO) lanthanoid trifluoroacetate complexes *Thermochim. Acta* **177** (1991) 341
- VITALI, G., BERCHIESI, G., CASTELLANI, F. (Univ. Camerino, Dip. Sci. Chim., Via S Agostino 1, I-62032 Camerino Italy)

- Solubility data of some sodium salts in molten urea *Thermochim. Acta* 179 (1991) 231
- VYAZOVKIN, S. V., GORYACHKO, V. I., LESNIKOVICH, A. I. (Byelorussian State Univ., Physicochem. Problems Res. Inst., Minsk 220080 Belorussia USSR) An approach to the solution of the inverse kinetic problem in the case of complex processes. 2. Methods relying on one thermoanalytical curve *Thermochim. Acta* 176 (1991) 49
- VYAZOVKIN, S. V., LESNIKOVICH, A. I., GORYACHKO, V. I. (Byelorussian State Univ., Physicochem. Problems Res. Inst., Minsk 220080 Belorussia USSR) A method of comparing kinetic curves obtained under isothermal and nonisothermal conditions *Thermochim. Acta* 177 (1991) 259
- WANG, X. Q., XIE, C. L., QU, S. S., ZHOU, Z. J. (Wuhan Univ., Dept. Chem., Wuhan Peoples R China) Microcalorimetric study of mitochondrial metabolism *Thermochim. Acta* 176 (1991) 69
- WANI, B. N., RAO, U. R. K. (Bhabha Atom Res. Ctr., Div. Appl. Chem., Bombay 400085 India) Mode of thermal decomposition of  $(\text{NH}_4)_3\text{NbOF}_6 \cdot 1.5\text{H}_2\text{O}$  *Thermochim. Acta* 176 (1991) 203
- WIBERG, K. B., CROCKER, L. S., MORGAN, K. M. (Yale Univ., Dept. Chem., New Haven CT 06511 USA) Thermochemical studies of carbonyl compounds. 5. Enthalpies of reduction of carbonyl groups *J. Amer. Chem. Soc.* 113 (1991) 3447
- YANG, S. R., ZHANG, J. H., JIANG, B. G., YANG, Z. H. (Shandong Univ., Dept. Chem., Jinan Peoples R China) The determination of the most probable mechanism function and kinetic parameters of the thermal decomposition of complexes of rare earth isothiocyanates with glycine by non-isothermal DSC curve *Thermochim. Acta* 176 (1991) 209
- YUSUFF, K. K. M., SREEKALA, R. (Cochin Univ. Sci. Technol., Dept. Appl. Chem., Cochin 682022 India) Thermal and spectral studies of 1-(2'-hydroxybenzyl)-2-(2'-hydroxyphenyl) benzimidazole complexes of iron(III), cobalt(II), nickel(II) and copper(II) *Thermochim. Acta* 179 (1991) 313
- ZAYED, M. A., BALEK, V. (Univ. Cairo, Fac. Sci., Dept. Chem., Giza Egypt) Structure elucidation of aminophenols iodine redox products by emanation thermal analysis *Thermochim. Acta* 179 (1991) 237
- ZERNOV, V. S., KOGAN, V. B. (Leningrad Technol. Inst. Paper Pulp. Ind., Leningrad USSR) Method of verifying the thermodynamic consistency of data on vapor liquid equilibrium in 4-component systems with one gaseous component *J. Appl. Chem.* 63 (1991) 1305
- ZHIZHAEV, A. M., BONDARENKO, G. N., DRAGUN, O. P. (Acad. Sci. USSR, Inst. Min. Ind., Novosibirsk USSR) Thermoanalytical investigation of mechanically activated pirrohotite concentrate *Izv. Sibir. Otd. Akad. Nauk. Khim.* 4 (1990) 125