

Bibliography section

- AARNIO, P., LESKELÄ, M., NIINISTÖ, L. (Helsinki Univ. Technol., Dept. Chem., SF-02150 Espoo, 15, Finland): Preparation of ammonium lanthanoid chromates (VI) and their characterization by X-ray diffraction and thermal analysis. *Finn. Chem. Lett.* /1981/97
- ABDEL-FATTAH, W.I., EL-DIDAMONY, H. (Natl. Res. Ctr., Dept. Refractories and Bldg. Mat., Cairo, Egypt): Thermal investigation on electrostatic precipitator kiln dust. *Thermochim. Acta* 51/1981/297
- ABDEL-FATTAH, W.I., GHAZY, T.M., SELIM, M.M. (Natl. Res. Ctr., Dept. Refractories and Bldg. Mat., Cairo, Egypt): The effect of thermal treatment on some characteristics of animal carbon. *Thermochim. Acta* 51/1981/287
- ABDURAGIMOV, I.M. (Minist. Internal Affairs USSR, Grad. Engr. Fire Tech. Coll., Dept. Burning Proc., Moscow, USSR): A criterion of fire extinguishing by cooling fire-extinguishing substances. *Zh. Vses. Khim. Obshch.* 27/1982/11 (in Russian)
- ABE, M., SUDOH, K. (Tokyo Inst. Technol., Fac. Sci., Dept. Chem., 2-12-1 Ookayama, Meguro-ku, Tokyo, 152 Japan): The thermal decomposition of crystalline antimonite(VI) acid. *Bull. Chem. Soc. Jap.* 55/1982/615
- ABO-EL-ENEIN, S.A., IBRAHIM, D.M., EL-HEMALY, S.A., HANAFI, S. (Qatar Univ., Dept. Chem., Doha, Qatar): Thermal and pore structure characteristics of silica modifications. *Thermochim. Acta* 52/1982/341
- ABU-HAMDIYYAH, M., ZHEHABUDDIN, A. (Kuwait Univ., Dept. Chem., Kuwait City, Kuwait): Transfer enthalpies and entropies of amino acids from water to urea solutions. *J. Chem. Eng. Data* 27/1982/74
- ACHAR, B.N., FOHLEN, G.M., PARKER, J.A. (Univ. Mysore, Dept. Postgrad. Studies and Res. Chem., Mysore, 570006 Karnataka, India): Phthalocyanine polymers. I. Poly [2,2',4,4',4''-4'''' metal phthalocyanino/-5,5'-bibenzimidazoles] as new high temperature-resistant polymers. *J. Polym. Sci. Polym. Chem. Ed.* 20/1982/269
- AGARWAL, R.C., AGARWAL, S.L. (Bipin Bihari Coll., Dept. Chem., Jhansi 284001, India): Thermodynamic functions of some transition metal chelates, with phloracetophenone in 50 % methanol-H₂O. *Thermochim. Acta* 52/1982/371
- AL-BADRI, H.T., BARBOOTI, M.M. (Al Mustansirivah Univ., Coll. Sci., Dept. Chem., Baghdad, Iraq): Thermoanalytical investigations on heterocyclic organic compounds. I. Thermal decomposition of pyrazolinoimides. *Thermochim. Acta* 53/1982/45
- ALEKSANDROVSKII, S.V., ZAKHAREVICH, A.A. (Leningrad Min. Inst., Leningrad, USSR): Effect of technological factors on the behavior of impurities in the magnesiothermal reduction of titanium tetrachloride. *J. Appl. Chem. USSR transl. Zh. Prikl. Khim.* 54/1981/573
- ALFER, S.A., MECHKOVSII, L.A., VECHER, A.A. (V.I. Lenin State Univ., Minsk, BeSSR): Enthalpies of mixing in a germanium indium antimony system. *Zh. Fiz. Khim.* 56/1982/227 (in Russian)
- ALIEV, M.I., ARASLY, D.G., DZHABRALOV, T.G. (Acad. Sci. AzSSR, Inst. Phys., Baku, AzSSR): Thermoconductivity and temperature-conductivity for Cu₈GeSe₆. *Fiz. Tverd. Tela* 24/1982/268 (in Russian)
- ALIEV, O.M., DZHABBAROV, I., ZHUKOVA, T.B., KURBANOV, T.K., PARFENYEVA, L.S., KHASAEV, G.G., SMIRNOV, I. A. (A.F. Joffe Engr. Phys. Inst., Leningrad, USSR): Thermoconductivity of CrLa₄S₇ and CrCe₄S₇. *Fiz. Tverd. Tela* 24/1982/599 (in Russian)
- AMIN, A., HANAFI, S., SELIM, S.A. (c/o S.A. Selim, Ain Shams, Univ., Fac. Sci., Dept. Chem., Cairo, Egypt): Structural and surface aspects of thermally treated phosphated and sulphated silica gel. *Thermochim. Acta* 53/1982/125
- AN, X.W., ZHANG, Z.L., WANG, S.N., YAN, J.Q., HU, R.H. (Acad. Sinica, Inst. Chem., Peking, Peoples R. China): Investigation on bond energies - the heat of combustion of hippuric acid, piperazine and azacycloheptane. *Acta Chim. Sin.* 39/1981/485

- ANDREWS, U.H., BALDWIN, J.E., GRAYSTON, M.W. (c/o J.E. Baldwin, Univ. Oregon, Dept. Chem., Eugene, Oreg., 97403 USA): On the thermal isomerization of trans-cyclo-octene to cis-cyclooctene. *J. Org. Chem.* 47/1982/287
- ARIBIKE, D.S., SUSU, A.A., OGUNYE, A.F. (Univ. Lagos, Dept. Chem. Engn., Lagos, Nigeria): Mechanistic and mathematical modeling of the thermal decomposition of cyclohexane. *Thermochim. Acta* 51/1981/113
- ARNEK, R., PUIGDOMENECH, I., VALIENTE, M. (Royal Inst. Technol., Dept. Inorgan.Chem., S-10044 Stockholm, 70 Sweden): A calorimetric study of copper(II) chloride complexes in aqueous solution. *Acta Chem. Scand. A* 36/1982/15
- ARNOLD, M., VERESS, G.E., PAULIK, J., PAULIK, F. (Tech. Univ. Budapest, Inst. Gen. and Analyt. Chem., H-1521 Budapest, Hungary): A critical reflection upon the application of the Arrhenius model to non-isothermal therrane thylurea - water mixtures from conductance data at 30°C. *Thermochim. Acta* 52/1982/67
- ARORA, B.R., RAI, M.N., MISHRA, K.K., SINGH, B.N., BANERJEE, R.K. (c/o R.K. Banerjee, Fertilizer Planning and Dev. India Ltd., Catalyst. Dev. Dept., Sindri, India): Thermal studies on zinc salts precipitated from zinc nitrate solution using different alkalis. *Indian J. Chem. A*, 20/1981/1174
- ASKAR, A.B., ADAM, G.A. (c/o G.A. Adam, Basrah Univ., Coll. Sci., Dept. Chem., Basrah, Iraq): The thermal stability of some pulping materials. *Thermochim. Acta* 53/1982/149
- ASSAEL, M.J., WAKEHAM, W.A. (c/o W.A., Wakeham, Univ. London Imperial Coll. Sci. and Technol., Dept. Chem. Engn. and Chem. Technol., London, SW7 2BY England): Thermal conductivity of binary gaseous mixtures containing diatomic components. *J. Chem. Soc. Faraday Trans. 1*, 78/1982/185
- ATOMYAN, E.G., BATURIN, S.M., FEDOTOVA, T.N. (Acad. Sci. USSR, Inst. Chem. Phys., Chernogolovka, USSR): Calorimetric determination of the energy of the interaction of OH.....O and OH..... π -electrons of the double bond in hydroxyoligobutadienes. *Vysokomol. Soedin. B*, 24/1982/137 (in Russian)
- BAGCHI, T.P., SEN, P.K. (Indian Inst. Technol., Dept. Met. Engn., Kharagpur, 721302 W. Bengal, India): Combined differential and integral method for analysis of non-isothermal kinetic data. *Thermochim. Acta* 51/1981/175
- BAMBERGER, C.E., BROOKHART, K., ROBINSON, P.R. (Oak Ridge Natl. Lab., Div. Chem., Oak Ridge, Tenn., 37830 USA): On the thermal decomposition of trans-dibromotetraaovanadium(III)/bromide. [VBr₂/H₂O]₂] Br. 2H₂O. *Inorg. Chim. Acta* 57/1982/161
- BANDOPADHYAY, S., MANDAL, A.K., ADITYA, S. (Univ. Calcutta, Dept. Appl. Chem., Calcutta, 700019 W. Bengal, India): Thermodynamics of ferrous-2,2'-dipyridyl in tert-butanol - water and glycerol - water mixtures at 25°C. *Thermochim. Acta* 52/1982/201
- BANERJEE, S.P. (Univ. Saugar, Dept. Chem., Sagar 470003 Madhya Pradesh, India): Determination of the kinetic parameters of the dehydration and decomposition processes of the sodium tetraphenyl boron-sorbed derivative of zeolite 3A by thermogravimetric method. *Thermochim. Acta* 53/1982/229
- BANERJEE, S.P., (Univ. Saugar, Dept. Chem., Sagar, 470003 Madhya Pradesh, India): Thermogravimetric Mössbauer and IR spectroscopic and optical reflectance studies of tris-/4,7-diphenyl-1,10-phenanthroline/iron(II) complex supported on synthetic zeolite 3A. *Thermochim. Acta* 53/1982/369
- BARALDI, P. (Univ. Modena, Ist. Chim. Fis., Chim. Fis. Appl. Lab., I-41100 Modena, Italy): Thermal behavior of metal carboxylates: III-metal acetates. *Spectrochim. Acta A* 38/1982/51
- BARATOV, A.N. (Minist. Internal Affairs USSR, Fire Prevent Res. Inst., Moscow, USSR): Problems of explosion-proof security of chemical plants. *Zh. Vses. Khim. Obshch.* 27/1982/22 (in Russian)

- BARR, J.B., LEWIS, I.C. (Union Carbide Corp. Div. Carbon Prod., Parma Techn. Ctr., POB 6116, Cleveland, Ohio, 44101 USA): Characterization of pitches by differential scanning calorimetry and thermomechanical analysis. *Thermochim. Acta* 52/1982/297
- BART, G., PETRIK, F., SPRUNGER, E., GRITSCH, P. (Eidgenoss. Inst. Reaktorforsch., CH-5303 Würenlingen, Switzerland): Modification of a thermogravimetric balance for the analysis of alpha- and low activity beta/gamma specimens. *Thermochim. Acta* 52/1982/169
- BARTON, T.J., GOURE, W.F., WITIAK, J.L., WULFF, W.D. (Iowa State Univ. Sci. and Technol., Dept. Chem. Ames, Ia., 50011 USA): Observations and comments on the thermal behavior of 7-silanobornadienes. *J. Organometal. Chem.* 225/1982/87
- BASSON, J.H., MURAKAMI, M., BOOYENS, H. (Univ. Port Elizabeth, Dept. Phys., P.O.B. 1600, Port Elizabeth, 600 South Africa): Thermal stability of Pb-alloy Josephson junction electrode materials. IV. Effects of crystal structure of Pb-Bi counter electrodes. *J. Appl. Phys.* 53/1982/337
- BELLINGER, G.C.A., GILES, R.G.F. (c/o R. G.F. Giles, Univ. Cape Town, Dept. Organ. Chem., Rondebosch, 7700 South Africa): Thermal rearrangements of some substituted stilbene-2-carboxylic acids. *S.Afr. J. Chem.* 35/1982/35
- BENNETT, F., MC FEE, D.G., LIELMEZS, J. (Texaco Canada Resources Ltd., Willestan Green, Canada): Thermodynamic functions of naphthalene from 0.25 to 8 atm. *Thermochim. Acta* 53/1982/241
- BHATIA, B.M.L., VOHRA, N. (Indian Inst. Petr., Additives Lab., Dehra Dun, 248005 Uttar Pradesh, India): Kinetic studies of the non-isothermal decomposition of metal chelates of lapachol with calcium/II/, barium/II/ and lead/II/. *Thermochim. Acta* 53/1982/361
- BHAVE, N.S., KHARAT, R.B. (Nagpur Univ., Dept. Chem., Nagpur, 440010 Maharashtra, India): Spectral, magnetic and thermal studies of some transition metal ions with N-meta-tolyl-paramethoxy benzohydroxamic acid (TMBHA). *J. Indian. Chem. Soc.* 58/1981/1294
- BISHOFF, J., VASSILEV, P.G., GONCHAROV, I.N. (Inst. Heavy Current Electrochem., Prague, Czechoslovakia): Low temperature heat capacity of Nb-79 6wt % Zr, Nb-38 wt % Ti and multifilamentary cables of NT-50. *Cryogenics* 22/1982/131
- BLAKE, P.G., SHRAYDEH, B.F. (Univ. Wales Univ. Coll. Cardiff, Dept. Chem., Cardiff, CF1 1XL, S. Glamorgan, Wales): The thermal decomposition of fluorinated esters. II. The effect of γ -substitution. *Int. J. Chem. Kinet.* 14/1982/291
- BLIZNAKOV, G., ZAKHARIEV, Z., TSOLOVSKY, I., VEICHKOV, S. (Bulgarian Acad. Sci., Inst. Gen. and Inorgan. Chem., BU-1113 Sofia, Bulgaria): Modification of steel surface by thermal treatment in the presence of ZrB_2 and KBF_4 . *J. Less-Common Metals* 82/1981/119
- BOCK, R.K., HANSL-KOZANECKA, T., SHAH, T.P. (CERN, CH-1211 Geneva 23, Switzerland): Parametrization of the longitudinal development of hadronic showers in sampling calorimeters. *Nucl. Instrum. Methods.* 186/1981/533
- BONICELLI, M.G., CECCARONI, G., RODANTE, F. (c/o F. Rodante, Univ. Rome, Ist. Chim., I-00100 Rome, Italy): A study of the proton transfer of chloro-substituted benzoic acids in water-dimethylsulfoxide mixtures compared with the same process in the gaseous phase. *Thermochim. Acta* 52/1982/45
- BOUGON, R., BUI HUY, T., BURGESS, J., CHRISTE, K.O., PEACOCK, R.D. (CEN, F-91191 Gif-sur-Yvette, France): Thermochemistry of NF_4^+ salts. *J. Fluorine Chem.* 19/1982/263
- BROUSSE, C., ROGEZ, J., CASTANET, R., MATHIEU, J.C. (CNRS Ctr. Thermodynam. et Microcalorimétrie, 26 Rue du 141ème R.I.A. F-13003 Marseille, France): Enthalpie de mélange du système vitreux albite-ortho-se (Na,K) $AlSi_3O_8$. *Mater. Res. Bull.* 17/1982/125
- BRUNNER, H., KERKIEN, G., WACHTER, J. (c/o J. Wachter, Univ. Regensburg, Inst. Anorgan. Chem., Universitätsstr. 31, D-8400 Regensburg, GFR): Die thermische Reaktion von $C_5H_5/CO_2/FeNa$ mit Benzimidchloriden. *J. Thermal Anal.* 26, 1983

- $C_6H_5/Cl/C$: NR. *J. Organometal. Chem.* 224/1982/295
- BUBACK, M., LENDLE, H. (Univ. Göttingen, Inst. Phys.Chem., D-3400 Göttingen, GFR): The kinetics of the decomposition of tert. butylperoxyvalate up to high pressures and temperatures. *Z. Naturforsch. A* 36/1981/1371 (in German)
- BURGESS, J., KIJOWSKI, J. (Univ. Leicester, Dept. Chem., Leicester LE1 7RH, England): Enthalpies of solution of chlorides and iodides of gallium/III/, indium/III/, thorium /IV/ and uranium /IV/. *J.Inorg. Nucl. Chem.* 43/1981/2649
- BURGESS, J., PEACOCK, R.D., ROGERS, J. H. (Univ. Leicester, Dept. Chem., Leicester LE1 7RH, England): Enthalpies of transfer of ions from water into aqueous hydrogen fluoride. *J. Fluorine Chem.* 19/1982/333
- BURROWS, H.D., ELLIS, H.A. (Univ. Ife, Dept. Chem., Ife, Nigeria): The thermal behaviour and spectral properties of some long chain copper/II/ carboxylates. *Thermochim. Acta* 52/1982/121
- BUSICO, V., CASTALDO, D., VACATELLO, M. (Univ. Naples, Ist. Chim., I-80134 Naples, Italy): Thermal behavior and liquid crystalline phases of a series of bis/n-alkyl-ammonium/ tetrabromozincates. *Mol.Cryst. Liquid Cryst.* 78/1981/221
- BUTLER, J.J., FRASER-MONTEIRO, M.L., FRASER-MONTEIRO, L., IBAER, T., HASS, J.R. (c/o T.Baer, Univ. N. Carolina, Dept.Chem., Chapel Hill, N.C., 27514 USA): Thermochemistry and dissociation dynamics of state-selected $C_4H_8O_2^+$ ions.2. Butanoic acid. *J.Phys.Chem.* 86/1982/747
- CAMBERLIN, Y., PASCAULT, J.P., LETOFFE, M., CLAUDY, P. (Inst. Natl. Sci. Appl. Lyon, ERA 745, Mat. Macromolec. Lab., 20 Ave Albert Einstein, F-69621 Villeurbanne, France): Synthesis and DSC study of model hard segments from diphenyl methane diisocyanate and butane diol. *J.Polym. Sci. Polym. Chem.Ed.* 20/1982/383
- CAMINO, G., COSTA, L., TROSSARELLI, L. (Univ. Turin, Ist. Chim. Macromolec., I-10125 Turin, Italy): Thermal degradation of polymer — fire retardant mixtures. II: Mechanism of interaction in polypropylene — chlorinated paraffin mixtures. *Polym. Degrad.Stabil.* 4/1982/39
- CANEPA, F., COSTA, G.A., OLCESE, G.L. (Univ. Genoa, Ist. Chim. Fis., I-16132 Genoa, Italy): Measurement of specific heat and of the structural and magnetic properties of rare earth intermetallic compounds with variable valences. *Chim. Ind.* 63/1981/843
- CANEPA, F., COSTA, G.A., OLCESE, G.L. (Univ. Genoa, Ist. Chim. Fis., I-16132 Genoa, Italy): Description of an apparatus designed to measure specific heat in the temperature range 20-400-K. *Chim. Ind.* 63/1981/843
- CARDENAS, G., BARTULIN, J. (Auburn Univ., Dept. Chem., Auburn, Al., 36849 USA): Thermal degradation of a series of phosphorylated resins of polyethylene. *Polymer* 23/1982/154
- CARLING, R.W., WONDOLOWSKI, A.T., MACMILLAN, D.C. (Sandia Natl. Lab., Livermore, Calif., 94550 USA): Enthalpy of formation of $CaCl_2 \cdot 2CH_3OH$ and $CaCl_2 \cdot 2C_2H_5OH$ by solution calorimetry. *J.Chem. Thermodyn.* 14/1982/125
- CASTAGNOLO, M., INGLESE, A., PETRELLA, G. (Univ. Bari, Inst. Phys. Chem., I-70126 Bari, Italy): Enthalpies of solution of tetra-n-butylammonium and tetra-n-pentylammonium bromides in (water + sulfolane) at 303.15 K. *J. Chem. Thermodyn.* 14/1982/37
- CESARI, E., ORTIN, J., TORRA, V., VIÑALS, J., MACQUERON, J.L., DUBES, J.P., TACHOIRE, H. (Fac. Fis. Barcelona, Dept. Termol., Diagonal 645, Barcelona, 28 Spain): Thermogenesis: relative kinetic limits. *Thermochim. Acta* 53/1982/29
- CESARI, E., TORRA, V., MACQUERON, J.L., PROST, R., DUBES, J.P., TACHOIRE, H. (Fac. Fis. Barcelona, Dept. Termol., Diagonal 645, Barcelona, 28 Spain): Thermo-

- gène: application des filtrages électronique et numérique inverses en calorimètre à conduction. *Thermochim. Cata* 53/1982/1
- CESARI, E., TORRA, V., MACQUERON, J.L., PROST, R., DUBES, J.P., TACHOIRE, H. (Fac.Fis.Barcelona, Dept. Termol., Diagonal 645, Barcelona, 28 Spain): Thermogénèse: applicatoon comparative de l'analyse harmonique et du filtrage inverse. *Thermochim. Acta* 53/1982/17
- CHABIN, M., GILLETTA, F., LUSPIN, Y., HAURET, G. (Univ. Orleans, Etud Phys. Mat. Lab., ERA 13, F-45046 Orleans, France): Thermal properties of $K_2Ba/NO_2/4$. *J. Phys.* 43/1982/337
- CHAKRAVARTI, A.N., GHATAK, K.P., GHOSH, S., CHOWDHURY, A.K. (Univ. Calcutta, Coll. Sci. and Technol., Inst. Radio Phys. and Electr., Calcutta, 700009 India): Effect of heavy doping on the electronic heat capacity in semiconductors. *Phys. Status Solidi B* 109/1982/705
- CHALLIS, L.J., GHAZI, A.A., WYBOURNE, M.N. (Univ. Nottingham, Dept. Phys., Nottingham, NG7 2RD England): Signals in thermal conduction produced by frequency crossing between resonant scattering centres on the two sides of an interface. *J. Phys. C* 15/1982/77
- CHANDRA, D., WIEDERMEIER, H. (Rensselaer Polytech. Inst., Dept. Chem., Troy, N. Y., 12181 USA): Chemical vapor transport and thermal behavior of the GeSe-GeI₄ system for different inclinations with respect to the gravity vector - comparison with theoretical and microgravity data. *J. Cryst. Growth* 57/1982/159
- CHANDRA, R. (Reg. Engn. Coll., Dept. Appl. Chem., Kurukshetra, 132119 Haryana, India): Controlled thermal degradation of natural rubber in dilute solutions in the presence and absence of some metal isopropylxanthates. *Indian J. Chem. A* 20/1981/1178
- CHANG, M.H., DOUGHERTY, D.A. (c/o D.A. Dougherty, Caltech, Crellin Lab. Chem., Pasadena, Calif., 91125 USA): Phase-dependent stereochemistry and chemical activation in the thermal decomposition of 2,3-diazabicyclo[2.1.1]hexene. *J. Amer. Chem. Soc.* 104/1982/1131
- CHARLESLEY, E.L., COX, C.T., OTTAWAY, M. R., BARTON, T.J., JENKINS, J.M. (Stanton Redcroft Ltd., Consultancy Serv., Copper Mill Lane, London SW17 0BN, England): Investigation of the ignition temperature of pyrotechnic systems using a purpose designed differential thermal analysis apparatus. *Thermochim. Acta* 52/1982/321
- CHERNOV, R.V., YAKOVLEV, B.V. (Acad. Sci. UkSSR, Inst. Gen. and Inorgan. Chem., Kiev, UkSSR): Some characteristics of the thermal properties of sodium and potassium chloride melts. *Zh. Fiz. Khim.* 56/1982/38 (in Russian)
- CHIZHIKOVA, S.M., ZVIADADZE, G.N., DENISOVA, G.M., DZEVITSKIY, B.E., KUZMIN, A.I.: An investigation of thermal decomposition processes of complexes of niobium and tantalum chlorides with organic compounds. *Russ. Met. transl. Izv. Akad. Nauk SSSR Met.* /1980/60
- CHOO, W.Y., LEE, J.Y. (Korea Adv. Inst. Sci. and Technol., Dept. Mat. Sci., Seoul, South Korea): Thermal analysis of trapped hydrogen in pure iron. *Met. Trans. A* 13/1982/135
- CHOUDHURY, N.R., AHLUWALIA, J.C. (Indian Inst. Technol., Dept. Chem., New Delhi 110016, India): Temperature dependence of sodium decanoate, sodium dodecanoate, and sodium dodecyl sulphate, in water. *J. Chem. Thermodyn.* 14/1982/281
- CHU, J.Y., NGUYEN, T.T., KING, K.D. (c/o K.D. King, Univ. Adelaide, Dept. Chem. Engn., Adelaide, SA 5001 Australia): Group additivity parameters for the estimation of thermochemical properties of gaseous and liquid nitriles. *J. Phys. Chem.* 86/1982/443
- COBOURN, W.G., DJUKIC-HUSAR, J., HUSAR, R.B., KOHLI, S. (Washington Univ., Ctr. Air Pollut. Impact and Trend Anal., St. Louis, Mo., 63130 USA): Airborne in-situ measurement of particulate sulfur and sulfuric acid with flame photometry and thermal analysis. *Atmos. Environ.* 46/1981/2565

- COHEN, S.D., RISINGER DIUGUID C.A., POIRIER, J.C., SWADESH, J.K. (c/o J.C. Poirier, Duke Univ., Dept. Chem., Durham, N.C., 27706 USA): Synthesis and thermal analysis of fourteen homologous mesogenic monoesters of biphenyl-4-4'-dicarboxylic acid. *Mol. Cryst. Liquid Cryst.* 78/1981/135
- COLBERT, J.C., XIHENG, HE, KIRKLIN, D. R. (NBS, Ctr.Chem. Phys., Div. Chem. Thermodynam., Washington, D.C., 20234 USA): Enthalpy of combustion of microcrystalline cellulose. *J.Res. Nat. Bur. Stand.* 86/1981/655
- CONSTANT, G., FEURER, R. (Ecole Natl. Super. Chim., Chim. Minerale et Cristallochim.Lab., CNRS, ERA 263, 118 Route Narbonne, F-31077 Toulouse, France): Preparation and characterization of thin protective films in silica tubes by thermal decomposition of hexachloroborazine. *J. Less-Common Metals* 82/1982/113
- CONTE, M.R., PELINO, M., PIACENTE, V. (c/o V.Piacente, Univ. Rome, Ist. Chim. Phys., I-00185 Rome, Italy): Vaporization study of the Tl_2S system. *Thermochim. Acta* 52/1982/271
- CORDEN, M.J., DOWELL, J.D. EDWARDS, M., ELLIS, N., GARVEY, J., GRANT, D., HOMER, R.J., KENYON, I.R., McMAHON, T., SCHANZ, G., SUMOROK, K'C'T'O., WATKINS, P.M., WILSON, J.A. (Univ. Birmingham, Dept. Phys., Birmingham, B15 2TT W. Midlands, England: Some hadron calorimeter properties relevant to storage rings. *Phys. Scr.* 25/1982/5
- CORDEN, M.J., DOWELL, J.D., EDWARDS, M., ELLIS, N., EDWARDS, M., ELLIS, N., GARVEY, J., GRANT, D., HOMER, R.J., KENYON, I.R., McMAHON, T., SCHANZ, G., SUMOROK, K.C.T.O., WATKINS, P.M., WILSON, J.A., EISENHANDLER, E., GIBSON, W.R., KALMUS, P.I.P., THOMPSON, G., ARNISON, G., ASTBURY, A., GRAYER, G., HAYNES, W.J., HILL, D., NANDI, A.K., ROBERTS, C., SHAH, T.P. (Univ. Birmingham, Dept. Phys., Birmingham B15 2TT W. Midlands, England); Performance of a UA1 hadron calorimeter prototype. *Phys. Scr.* 25/1982/11
- CORNEJO, J. (CSIC, Ctr. Edafol y Biol. Aplicada Cuarbo, Seville, Spain): Study of the thermal decomposition of surface acetates obtained through the reaction $CH_3COOH + M_xO_y$ ($M = Fe, Co$). *Afinidad* 38/1981/525 (in Spanish)
- COTTS, E.J., ANDERSON, A.C. (Univ. Illinois, Dept. Phys., Urbana, Ill., 61801 USA): Low-temperature specific heat of deformed lithium fluoride crystals. *Phys. Rev B* 24/1981/7329
- CRIADO, J.M., MORALES, J., DHARWADKAR, S.R., CHANDRASEKHARIAH, M. S.: Comments on the paper "On the evaluation of kinetic parameters, from thermogravimetric curves". *Thermochim. Acta* 31/1981/379
- CRIST, B., MARHIC, M.E. (Northwestern Univ., Dept. Mat. Sci. and Engr., Evanston, Ill., 60201 USA): Dye-laser calorimetry of polymer glasses. *J.Polym. Sci. Polym. Phys. Ed.* 20/1982/357
- CYGAŃSKI, A., KOBYŁECKA, J. (Tech. Univ. Łódź, Inst. Gen. Chem., PL-90924 Łódź, Poland): Kinetic parameters of the thermal decomposition reactions of alkali metal thiosulphatobismuthates/III/. *Thermochim. Acta* 52/1982/255
- DAS, S.K., TRIPATHI, R.S., JOSHI, S.K. (Univ. Roorkee, Dept. Phys., Roorkee 247672, Uttar Pradesh, India): Effect of magnetic field on the susceptibility and the specific heat of spin glasses. *Phys. Status Solidi B* 108/1981/581
- DAUDIN, B., LAGNIER, R., SALCE, B. (CEN, Serv. Basses Temp., Cryophys.Lab., F-38041 Grenoble, France): Thermal properties of rare earth vanadates and arsenates with a view to magnetic refrigeration applications. *J.Magn. Magn. Mater.* 25/1981/197
- DAUDIN, B., SALCE, B. (CEN, Cryophys. Lab., Serv. Basses Temp., F-38041 Grenoble, France): Thermal conductivity of rare earth vanadates and arsenates undergoing a cooperative Jahn-Teller effect. *J. Phys. C* 15/1982/463

- DAUDIN, B., SALCE, B. (CEN, Cryophys. Lab., Serv. Basses Temp., F-38041 Grenoble, France): Thermal conductivity of $Gd_3Ga_5O_{12}$. *Compt. Rend.* 11, 293/1981/885 (in French)
- DAY, M., PARFENOV, V., WILES, D.M. (NRC Canada, Div. Chem., Ottawa, Ontario, K1A 0R9 Canada): Combustion and pyrolysis of poly/ethylene terephthalate. III. The effect of tris/2,3-dibromopropyl/phosphate on the products of pyrolysis. *J. Appl. Polym. Sci.* 27/1982/575
- DE BENI, G. (Ispra Estab., CEC, Joint Res. Ctr., I-21020 Ispra, Italy): Thermochemical processes for hydrogen production by water splitting from theory to practice. *J. Electrochem. Soc.* 129/1982/67
- DEL CERRO, J., RAMOS, S. (Univ. Sevilla, Dept. Termol., Sevilla, Spain): Specific heat of TGS under applied electric fields: comparison between theory and experiments. *Ferroelectrics* 39/1981/1229
- DEMIDENKO, A.F., KOSHCHENKO, V.I., PASHINKIN, A.S., YACHMENEV, V.E. (D. I. Mendeleev Chem. Technol. Inst., Novomoskovsk, USSR): Temperature dependence of the specific heat and thermodynamic properties of gallium phosphide. *Inorg. Mater. transl. Izv. Akad. Nauk SSSR Neorg. Mater.* 17/1981/677
- DENIZ, K.U., MIRZA, E.B., RAO, U.R.K., PARVATHANATHAN, P.S., PARANJPE, A. S., PATANKAR, K.V. (Bhabha Atom Res. Ctr., Bombay, 400085 India): DSC study of phase transitions in p-n-octyl-oxybenzylidene-p-aminobenzoic acid. *Thermochim. Acta* 51/1981/141
- DOLLIMORE, D., GAMLEN, G.A., TAYLOR, T.J. (Univ. Salford, Dept. Chem. and Appl. Chem., Salford, M5 4WT Lancashire, England): The mass spectrometric and thermogravimetric determination of rising temperature kinetic parameters for the solid state decomposition of nickel nitrate hexahydrate. *Thermochim. Acta* 51/1981/269
- DOLLIMORE, D., KARIMIAN, R. (Univ. Salford, Dept. Chem. and Appl. Chem., Salford, M5 4WT Lancashire, England): The thermal decomposition of gum tragacanth in nitrogen. *Thermochim. Acta* 51/1981/353
- DOROGOVTSSEV, S.N. (A.F. Ioffe Engr. Phys. Inst., Leningrad, USSR): Specific heat of two-dimensional Ysing magnet with high defect concentration. *Fiz. Tverd. Tela* 24 /1982/99 (in Russian)
- DRULIS, M., STALIŃSKI, B. (Polish Acad. Sci., Inst. Low Temp. and Struct. Res., POB 937, PL-50950 Wrocław, Poland): Low-temperature specific heats of non-stoichiometric neodymium hydrides. *Phys. Status Solidi A* 69/1982/385
- DUBES, J.P., TACHOIRE, H. (Univ. Provence, Thermochem. Lab., F-13331 Marseille, 3 France): Optimisation du filtrage électronique inverse en microcalorimétrie à conduction. *Thermochim. Acta* 51/1981/239
- DUBEY, B.L., SINGH, G., SHUKLA, C.S. (Univ. Gorakhpur, Dept. Chem., Gorakhpur 273001 Uttar Pradesh, India): Effect of copper chromite and copper chromite/copper oxide mixture catalysts on the thermal decomposition of ammonium perchlorate and composite solid propellant. *Fuel* 61/1982/129
- DUBEY, K.S. (Univ. Basrah, Coll. Sci., Dept. Phys., Basrah, Iraq): Lattice thermal conductivity of noncrystalline material at low temperatures. Application to borosilicate glass. *Phys. Status Solidi A* 69/1982/121
- DUBROVINA, A.N., DROZDOVA, G.A., VLA-SOVA, E.S. (Moscow Steel and Alloys Inst., Moscow, USSR): Phase transitions in the alloys Cu_2Te and $Cu_2Te_{0.68}S_{0.32}$ during heating and isothermal annealing. *Inorg. Mater. transl. Izv. Akad. Nauk SSSR Neorg. Mater.* 17/1981/393
- DUVIGNEAUD, P.H., REINHARD-DERIE, D. (Univ. Libre Bruxelles, Serv. Chim. Ind. et Chim. Solides, B-1050 Brüssel, Belgium): DTA study of RuO_2 formation from the thermal decomposition of ruthenium(III) hydrate. *Thermochim. Acta* 51/1981/307
- DWORKIN, A., FUCHS, A.H., GHELFENSTEIN, M., SZWARC, H. (Univ. Paris 11, Chim. Phys. Mat. Amorphes Lab., F-91405 Orsay, France): Glassy crystals. I: NMR line width measurements, thermally stimulated depolarization currents and differential scanning calorimetry in some cycloalcohols. *J. Phys. Lett.* 43/1982/L-21 (in French)

- EGERER, F. (Tech. Univ. Heavy Ind., Dept. Mineral. and Petrog., H-3515 Miskolc, Hungary): The dielectric thermal analysis. *Bull. Miner.* 104/1981/763
- EL-AKKAD, T.M., KHALIL, A.M., ATTIA, G., NASHED, S. (Ain Shams Univ., Fac. Sci., Dept. Chem., Cairo, Egypt): Surface and structural properties of 3,5 and 10A synthetic zeolites. *Thermochim. Acta* 52/1982/19
- ELDER, J.P. (Kentucky Ctr. Energy Res. Lab., Inst. Min. and Minerals Res., POB 13015, Lexington, Ky., 40583 USA): Temperature control in the Perkin-Elmer TGS-2/system 4. *Thermochim. Acta* 52/1982/235
- EL-SHOBAKY, G.A., HEWAIDY, I.F., GHONEIM, N.M. (Natl. Res. Ctr., Cairo, Egypt): Effect of Li₂O-doping on the thermal stability of cobaltic oxide. *Thermochim. Acta* 53/1982/105
- ERASTOV, P.A., KOLESOV, V.P. (M.V. Lomonosov State Univ., Dept. Chem., Moscow, 117234 USSR): Enthalpy of formation of trifluorochloroethene. *J. Chem. Thermodyn.* 14/1982/103
- FEDOTOV, A.O., MEZHOV-DEGLIN, L.P. (Acad. Sci USSR, Inst. Solid State Phys., Chernogolovka, USSR): Plastic deformation effect on thermoconductivity of pure copper and silver specimens. *Fiz. Tverd. Tela* 24/1982/207 (in Russian)
- FESENKO, O.E., POPOV, V.S. (Rostov Don State Univ., Phys. Res. Inst., Rostov, USSR): Low-temperature phase transitions in barium titanate in a strong electric field. *Dokl. Akad. Nauk SSSR* 260/1981/1134 (in Russian)
- FINCH, A., SMITH, A.E. (Univ. London Royal Holloway Coll., Bourne Lab., Egham TW 20 OEX, Surrey, England): Thermochemistry of picrates. II. The standard enthalpy of formation of picric acid. *Thermochim. Acta* 52/1982/317
- FINCH, A., SMITH, A.E. (Univ. London, Royal Holloway Coll., Bourne Lab., Egham, TW20 OEX, Surrey, England): Thermochemistry of picrates. III. Enthalpies of solution and solubilities of picrate salts. *Thermochim. Acta* 53/1982/349
- FITZNER, K. (Univ. Wisconsin, Dept. Met. and Mineral. Engr., Madison, Wis., 53706 USA): Prediction of thermodynamic properties of oxygen in liquid transition metals. *Thermochim. Acta* 52/1982/103
- FRANK, E., KUNRATH, J.I., MULLER, C.S. (Quim. Hoechst Sa. Div. Tensioactivos, RA-222 Corrientes, Buenos Aires, Argentina): Effect of the experimental conditions on the thermal decomposition of K₄Fe(CN)₆ · 3H₂O. *An. Quim. A* 77/1981/307
- FRASER-MONTEIRO, M.L., FRASER-MONTEIRO, L., BUTLER, J.J., BAER, T., HASS, J.R. (c/o T. Baer, Univ. N. Carolina, Dept. Chem., Chapel Hill, N.C., 27514 USA): Thermochemistry and dissociation dynamics of state-selected C₄H₈O₂⁺ ions. 1,1,4-dioxane. *J. Phys. Chem.* 86/1982/739
- FRASER-MONTEIRO, L., FRASER-MONTEIRO, M.L., BUTLER, J.J., BAER, T. (c/o T. Baer, Univ. N. Carolina, Dept. Chem., Chapel Hill, N.C., 27514 USA): Thermochemistry and dissociation dynamics of state-selected C₄H₈O₂⁺ ions. 3. Ethyl acetate. *J. Phys. Chem.* 86/1982/752
- FUJISHIMA, A., MAEDA, Y., SUZUKI, S., HONDA, K. (Univ. Tokyo, Fac. Engr., Dept. Synthet. Chem., Tokyo, 113 Japan): Comparative measurements of photocurrent quantum efficiency. Fluorometric, thermometric and actinometric methods applied to a fluorescent polycrystalline ZnO electrode. *Chem. Lett.*/1982/179
- FURUICHI, R., ISHII, T., YAMANAKA, Z., SHIMOKAWABE, M. (Hokkaido Univ., Fac. Engr., Dept. Appl. Chem., Sapporo, Hokkaido, 060 Japan): SEM observation of the thermal decomposition processes of KClO₄, KClO₃, KBrO₃, KIO₄ and KIO₃ in the presence of α-Fe₂O₃ and α-Al₂O₃. *Thermochim. Acta* 51/1981/199
- FURUICHI, R., ISHII, T., YAMANAKA, Z., SHIMOKAWABE, M. (Hokkaido Univ., Fac. Engr., Dept. Appl. Chem., Sapporo, Hokkaido, 060 Japan): Effect of α-Fe₂O₃ additive on the thermal decomposition of salts of

- halogen oxoacids, oxalates, azide, permanganate, and oxides. *Thermochim. Acta* 51/1981/245
- GALLAGHER, P.K. (Bell Tel. Labs. Inc., Murray Hill, N.J., 07974 USA); Thermal decomposition of $\text{Ba/NO}_2/2 \cdot \text{H}_2\text{O}$. *Thermochim. Acta* 51/1981/233
- GALLAGHER, S.A., McCARTHY, G.J. (Rockwell Hanford Operat., MO-037 Bldg., 200 W. Area, Richland, Wa., 99352 USA); High temperature thermal stability of CsAlSiO_4 and $\text{CaAlSi}_2\text{O}_6$. *Mater. Res. Bull.* 17/1982/89
- GALWEY, A.K., BROWN, M.E. (Queens Univ. Belfast, Dept. Chem., Belfast BT9 5AG, Antrim, North Ireland); Thermal decomposition of nickel squarate dihydrate, $\text{NiC}_4\text{O}_4 \cdot 2\text{H}_2\text{O}$. *J. Chem. Soc. Faraday Trans. I*, 78/1982/411
- GARDINER, W.C. (Univ. Texas, Austin, Tex., 78712 USA); The emphasis is not so much on combustion products as on short-lived intermediate substances. *Sci. Amer.* 246/1982/110
- GHIASSEE, N., CLAY, P.G., WALTON, G.N. (c/o P.G. Clay, Univ. London, Imperial Coll. Sci. and Technol., Dept. Chem. Engn. and Chem. Technol., London SW7 2A2, England); Thermal decomposition of $\text{U/BH}_4/4$. *J. Inorg. Nucl. Chem.* 43/1981/2909
- GILLESPIE, P.A. (Univ. Geneva, Dept. Chim. Phys., CH-1211 Geneva, 4 Switzerland); A study of the interactions of iron metal, haematite and calcium carbonate between 700 and 1100°C in a nitrogen atmosphere using Mössbauer spectroscopy. *Thermochim. Acta* 51/1981/129
- GINZBURG, B.Z. (Acad. Sci. USSR, Inst. Appl. Phys., Gorki, USSR); The binding enthalpy of water to bovine serum albumin. *J. Colloid Interface Sci.* 85/1982/422
- GOETZ, M.C., COWEN, J.A. (Michigan State Univ., Dept. Phys., E. Lansing, Mich., 48824 USA); The thermal conductivity of silver iodide. *Solid State Commun.* 41/1982/293
- GOLUNSKI, S.E., NEVELL, T.G., POPE, M.I. (Portsmouth Polytech., Dept. Chem., Portsmouth P01 2D2, Hampshire, England); Thermal stability and phase transitions of the oxides of antimony. *Thermochim. Acta* 51/1981/153
- GONZALEZ, D.J., ALONSO, J.A. (Univ. Valladolid, Dept. Fis. Teorica, Valladolid, Spain); Density functional-pseudopotential calculation of the heat of formation of disordered solid alkaline-earth alloys. *Physica* 112/1982/73
- GORBUNOV, V.E., GUREVICH, V.M., GAVRICHEV, K.S. (N.S. Kurnakov Gen. and Inorgan. Chem. Inst., Moscow, USSR); Adiabatic microcalorimeter with the aneroid-type cryostat. *Zh. Fiz. Khim.* 56/1982/235 (in Russian)
- GOSPODAREV, I.A., SYRKIN, E.S. (Acad. Sci. UkSSR, Inst. Low Temp. Engn. Phys., Kharkov, 108 UkSSR); Study of the surface contribution to the low-temperature heat capacity of highly anisotropic crystals. *Fiz. Nizkikh Temp.* 7/1981/1467 (in Russian)
- GRACHOK, M.A., KARABAN, A.A., SHRAMENOK, V.D. (V.V. Kuibyshev Natl. Econ. Inst., Dept. Chem., Minsk, BeSSR); Study of the efficiency of butadiene rubber stabilizers by the methods of differential thermic and thermogravimetric analysis. *Izvest. Vyssh. Uch. Zav.* 24/1981/1422 (in Russian)
- GREIDANUS, F.J.A.M., DEJONGH, L.J., HUISKAMP, W.J., BUSCHOW, K.H.J. (State Univ. Leiden, Kamerlingh Onnes Lab., Leiden, Netherlands); Specific heat and frequency-dependent AC susceptibility of PrNi_2 below 1K (Letter to the editor). *Physica B+C* 112/1982/92
- GRIGG, R.B., GOATES, J.R., OTT, J.B. (c/o J.B. Ott, Brigham Young Univ., Dept. Chem., Provo, Utah, 84602 USA); Excess volumes and excess enthalpies for (n-dodecane+n-octane) and excess volumes for (n-dodecane+cyclohexane) at 298.15K. *J. Chem. Thermodyn.* 14/1982/101
- GRISHCHENKO, G.V., LEPILIN, V.N., MEDVEDEV, N.N. (Syktyvkar State Univ., Syktyvkar, USSR); Additive method of calculating thermal conductivity coefficients

- of hydrocarbons in certain homologous series. *J. Appl. Chem. USSR transl. Zh. Prikl. Khim.* 54/1981/1147
- GROLIER, J.P.E., FARADJZADEH, A., KEHIAIAN, H.V. (Univ. Marburg, Fachbereich Chem., D-3550 Marburg, 1 GFR): Calorimetric effects of short-range orientational order in solutions of benzene or n-alkylbenzenes in n-alkanes. *Thermochim. Acta* 53/1982/157
- GRUBBS, G.R., KLEPPICK, M.E., MAGILL, J. H. (Univ. Pittsburgh, Dept. Chem. and Petr., Pittsburgh, Pa., 15261 USA): A thermal analysis study of bisphenol-A-polycarbonate-dimethylsiloxane block copolymers. *J. Appl. Polym. Sci.* 27/1982/601
- GSCHEIDNER, K.A., BEAUDRY, B.J., TAKESHITA, T., EUCKER, S.S., TAHER, S. M.A., HO, J.C., GRUBER, J.B. (Iowa State Univ. Sci. and Technol., Ames Lab., Ames, Ia, 50011 USA): Low-temperature heat capacities of yttrium, lanthanum, and lutetium sesquisulfides. *Phys. Rev. B* 24/1981/7187
- HAKEMI, H. (Univ. Louisville, Dept. Chem., Louisville, Ky., 40292 USA): The effect of structure on the thermodynamic properties of a liquid crystalline diastereomeric pair of chiral alkanooates. *Thermochim. Acta* 53/1982/271
- HALES, P.W., PASS, G. (c/o G.Pass., Salford, Dept. Chem. and Appl. Chem., Salford, M5 4WT Lancashire, England): Enthalpies of mixing of simple electrolyte solutions with sodium carboxymethylcellulose. *J. Chem. Soc. Faraday Trans. 1*, 78/1982/283
- HALL, R.O.A., MARTIN, D.G. (AERE, Div. Chem., Harwell OX11 ORA, Oxfordshire, England): The thermal conductivity of powder beds. A model, some measurements on UO₂ vibro-compacted microspheres, and their correlation. *J. Nucl. Mater.* 101/1981/172
- HARTMANN, B., LEE, G., LONG M. (USN, Ctr. Surface Weap., Polymer Phys. Grp., Silver Spring, Md., 20910 USA): Specific heat capacities of some polyepoxides. *J. Appl. Polym. Sci.* 27/1982/289
- HASEN, A.K., DUBEY, K.S. (c/o K.S. Dubey, Univ. Basrah, Coll. Sci., Dept. Phys., Basrah, Iraq): Lattice thermal conductivity of semi-crystalline polymer at low temperatures. Application to polyoxymethylene and polyethylene terephthalate. *Indian J. Pure Appl. Phys.* 20/1982/9
- HÉBERGER, K., HAJDU, I.P., GÁL, D., NENCHEV, L., (Hung. Acad. Sci., Cent. Res. Inst. Chem., H-1525 Budapest, Hungary): Investigation of the thermal decomposition of alpha-phenyl-ethyl hydroperoxide. 2. Application of the inhibitor method. *Magy. Kém. Foly.* 87/1981/557 (in Hungarian)
- HEDWIG, G.R., WATSON, I.D.: Erratum: a microcalorimetric study of the association of hexacyanoferrate(II) ions with calcium and magnesium ions in aqueous solution. *J. Solut. Chem.* 10/1981/597
- HENIG, E.T., LUKAS, H.L., PETZOW, G. (Max Planck Inst. Met. Forsch., Inst. Werkstoffwissenschaften, Heisenbergstr. 5, D-7000 Stuttgart, 80 GFR): Enthalpy of formation and description of the defect-structure of the ordered β -phase in Co-Ga. *Z. Metallk.* 73/1982/87
- HILDENBRAND, D.L. (SRI Int., Menlo Pk., Calif., 94025 USA): Target techniques for on-line separators. VI. Thermochemistry. *Nucl. Instrum. Method* 186/1981/357
- HINSBERG, W.D., SCHULTZ, P.G., DERVAN, P.B. (c/o P.B. Dervan, Caltech, Crellin Lab. Chem., Pasadena, Calif., 91125 USA): Direct studies of 1,1-diazenes. Syntheses, infrared and electronic spectra, and kinetics of the thermal decomposition of N-/2,2,6,6-tetramethyl-piperidyl/nitrene and N-/2,2,5,5-tetramethyl-pyrrolidyl/nitrene. *J. Amer. Chem. Soc.* 104/1982/766
- HIRABAYASHI, T., MOHMAND, S., BOCK, H. (c/o H.Bock, Univ. Frankfurt, Inst. Anorg. Chem., D-6000 Frankfurt, 50 GFR): Gas phase reactions. 23: Thermal decomposition of open-chain dialkyl sulfides, disulfides and diselenides. *Chem. Ber.* 115/1982/483 (in German)

- HODGKIN, J.H., GALBRAITH, M.N., CHONG, Y.K. (CSIRO, Div. Appl. Organ. Chem., GPO BOX 4331, Melbourne, VIC 3001 Australia): Combustion products from burning polyethylene. *J. Macromol. Sci. A* 17/1982/35
- HUANG, S.T., LU, P.Q., ZHANG, X.L., QIU, G.C. (Acad. Sinica, Shanghai Inst. Organ. Chem., Shanghai, Peoples R. China): XPS and XRD study of thermal oxidation and decomposition of poly(vinylferrocene). *Acta Chim. Sin.* 39/1981/512
- IBARRA, J.V., JUAN, R. (CSIC, Inst. Carboquim., Zaragoza 5, Spain): Humic acids of lignite. III. Study of the hydrolysis and thermal stability of the complexes of humic acids with strontium, lead, uranyl and thorium ions. *Afinidad* 38/1981/506 (in Spanish)
- IIDA, Y. (Hokkaido Univ., Fac. Sci., Dept. Chem., Sapporo, Hokkaido, 060 Japan): Thermal stability enhancement of liquid-crystal phase by charge-transfer interaction in binary mixtures. Application of solid-solution model. *Bull. Chem. Soc. Jap.* 55/1982/313
- ILIĆ, Z.E., MAKSIMOVIĆ, Z.B. (Boris Kidrič Inst. Nucl. Sci., Chem. Dynam. Lab., P.O.B. 522, YU-11001 Belgrade, Yugoslavia): Enthalpies of mixing of binary mixtures: trialkyl phosphates, dialkyl ketones and dialkyl ethers with chloroform. *Thermochim. Acta* 53/1982/251
- IL'INA, T.V., GROMOVA, V.V., TSVETKOVA, L.V., PROSKURYAKOV, V.A., GLUKHOEDOV, N.P., NIKONOROV, E.M., KAGAN, L.K. (Lensovět Technol. Inst., Leningrad, USSR): Study of the dependence of the thermal stability of esters on the structure with the aid of an isoteniscope. *J. Appl. Chem. USSR transl. Zh. Prikl. Khim.* 54/1981/721
- ISHII, T., TSUCHIDA, T., FURUICHI, R., HAGA, H., KUDO, K. (Hokkaido Univ., Fac. Engn., Dept. Appl. Chem., Sapporo, Hokkaido, 060 Japan): DTA study of the chlorination of fly ash and bauxite in the presence of carbon. *Thermochim. Acta* 53/1982/89
- ISMAIL, M.I., AMMAR, A.S.A. (Univ. Waterloo, Dept. Chem. Engn., Waterloo, Ontario, N2L 3G1 Canada): Role of heat treatment on order-disorder transformation of some Cu-Ni-Zn alloys. *Physica B+C* 112/1982/51
- IVANOV, M.I., KARPOVA, T.F., DA'LAGO, N.Y.: Enthalpies of formation of Ni₃Be and Ni₅Be₂₁. *Inorg. Mater. transl. Izv. Akad. Nauk SSSR Neorg. Mater.* 17/1981/414
- JAIN, R., AGARWAL, D.D. (Univ. Roorkee, Dept. Chem., Roorkee, 247672 Uttar Pradesh, India): Thermodynamic behaviour and stability constants of 5-arylazo-2-methylthio-4-hydroxy-6-methylpyrimidine (AMHP) complexes. *Thermochim. Acta* 53/1982/343
- JAIN, R., AGARWAL, D.D. (224 Khandag St., Meerut, 250002 India): Stepwise stability constants and thermodynamic functions of some transition metal complexes of 2-(2-hydroxyphenyl)-hydrazonopentane-2,4-dione (PHPD). *Thermochim. Acta* 52/1982/355
- JEDNAČAK-BIŠCAN, J., PRAVDIČ, V. (Rudjer Boskovic Inst., Electrochem. and Surface Phenomena Lab., YU-41001 Zagreb, Yugoslavia): Absorption phenomena on glass surfaces. III. A microcalorimetric study of adsorption of n-butanol on heat treated surfaces of controlled pore glass. *Thermochim. Acta* 53/1982/203
- JAYABALAN, M. (Univ. Madras, Ac. Coll., Dept. Analyt. Chem., Madras, 600025 Tamil Nadu, India): Thermal modification of poly(vinylchloride) and formation of dehydrochlorinated poly(vinylchloride). Poly(methyl methacrylate) polymer blend in the process of foaming: identification and application. *J. Appl. Polym. Sci.* 27/1982/43
- JOHNSON, D.W., GALLAGHER, P.K. (Bell Tel. Labs. Inc., Murray Hill, N.J., 07974 USA): The conversion of kinetic data taken at constant time increments to constant reaction increments. *Thermochim. Acta* 51/1981/225

- JONES, D.P., PHILLIPS, W.A., LASJAUNIAS, J.C. (Univ. Cambridge, Cavendish Lab., Madingley Rd., Cambridge CB3 0HE, England): The heat capacities of arsenic, phosphorous and $\text{Ge}_x\text{Se}_{1-x}$ glasses below 1-K. *Solid State Commun.* 41/1982/255
- JONES, W.R. (Bell Tel. Labs. Inc., Murray Hill, N.J., 07974 USA): A microprocessor-based evolved gas analysis system. *Thermochim. Acta* 52/1982/305
- JUBINDO, M.A.P., ECHARRI, A.L., TELLO, M.J. (Univ. Pais Vasco, Fac. Ciencias, Dept. Fis., Bilbao, Spain): Specific heat critical behaviour of trissarcosine calcium chloride. *Ferroelectrics* 39/1981/1171
- JUILLARD, J. (Univ. Clermont Ferrand, 2 Etud Interact. Solutés Solvants Lab., F-63170 Aubière, France): Solute-solvent interactions in water+ t-butyl alcohol mixtures. II. Enthalpies of transfer of ammonium and tetra-alkylammonium salts. *J. Chem. Soc. Faraday Trans. 1*, 78/1982/37
- KARASEV, V.E., STEBLEVSKAYA, N.I., SHCHELOKOV, R.N.: Regularity of melting temperature changes of rare earth element mixed-ligand betadiketonates. *Zh. Neorg. Khim.* 27/1982/71 (in Russian)
- KARIMOV, S.K. (Kulyab Teachers Inst., Kulyab, TaSSR): Specific heat and thermodynamic properties of CdTi_2Se_4 . *Inorg. Mater. transl. Izv. Akad. Nauk SSSR Neorg. Mater.* 17/1981/389
- KECHAVARZ, R., DUBES, J.P., TACHOIRE, H. (Univ. Provence, Thermochim Lab., F-13331 Marseille, 3 France): Description thermodynamique des mélanges moléculaires: extension du domaine d'application de la calorimétrie à conduction par déconvolution de la réponse instrumentale. *Thermochim. Acta* 53/1982/39
- KEONT'EV, K.L.: Relationship between the elastic and thermal properties of substances. *Sov. Phys. Acoust. transl. Akust. Zh.* 27/1981/309
- KHALIL, A.A. (Natl. Res. Ctr., Cairo, Egypt): Some aspects of the hydrothermal calcination of gypsum. *Thermochim. Acta* 53/1982/59
- KHESIN, V.G., A'LPEROVICH, M.A., ABRAMENKO, P.I. (All Union Chem. Photog. Ind. Res. Inst., Moscow, USSR): Study of directions of thermal fragmentation of thiocarbocyanine dyes. *Khim. Geterotsikl. Soedin.* /1981/1626 (in Russian)
- KHILLA, M.A., HANNA, A.A. (Natl. Res. Ctr., Dept. Inorgan. Chem., Cairo, Egypt): Electrical properties of semiconductor materials. Chromium trioxide. *Thermochim. Acta* 51/1981/335
- KHRIPLOVICH, L.M., KHOLOPOV, E.V., PAUKOV, I.E. (Acad. Sci. USSR, Inst. Inorgan. Chem., Novosibirsk, 630090 USSR): Heat capacity and thermodynamic properties of Co_3O_4 from 5 to 307K. Low-temperature transition. *J. Chem. Thermodyn.* 14/1982/207
- KING, E.L. (Univ. Colorado, Boulder, Colo., 80309 USA): Thermodynamics of the thermal decomposition of water by closed chemical cycles. *J. Chem. Educ.* 58/1981/975
- KISHORE, K., SANTHANALAKSHMI, K.N. (Indian Inst. Sci., Dept. Inorgan. and Phys. Chem., Bangalore, 560012 India): Heats of reaction between aniline and formaldehyde by solution calorimetry: reaction in neutral medium. *Thermochim. Acta* 53/1982/263
- KIZIN, A.N., LEBEDEV, I.A. (Acad. Sci. USSR, Inst. Chem. Phys., Moscow, V-71 USSR): Calculation of the enthalpies of formation of polysubstituted aliphatic compounds in solid phase. *Dokl. Akad. Nauk SSSR* 262/1982/914 (in Russian)
- KLEPPA, O.J., PHUTELA, R.C. (Univ. Chicago, James Franck Inst., Chicago, Ill., 60637 USA): A calorimetric equilibrium study of dilute solutions of hydrogen and deuterium in palladium at 555 to 909K. *J. Chem. Phys.* 76/1982/1106
- KLEPPA, O.J., SATO, S. (Univ. Chicago, James Franck Inst., Dept. Chem., Chicago, Ill., 60637 USA): New applications of high-temperature solution calorimetry. III. En-

- thalpies of formation of Mn_2B , MnB , and MnB_2 . *J. Chem. Thermodyn.* 14/1982/133
- KOBAYASHI, K., SAITO, Y. (c/o Y. Saito, Tokyo Inst. Technol. Engr. Mat. Res. Lab., Midoru-ku, Yokohama, Kanagawa, 227 Japan): A model proposed for the interpretation of DTA and X-ray data of the III \leftrightarrow IV transition in sodium sulfate. *Thermochim. Acta* 53/1982/299
- KOBAYASHI, Y., KUMADAKI, I., KUBOKI, S. (Tokyo Coll. Pharm., Hachioji, Tokyo, 19203 Japan): Thermolysis of hexakis/trifluoromethyl/benzene. *J. Fluorine Chem.* 19/1982/517
- KOHL, H.K., PENG, K. (Swiss Fed. Inst. Reactor Res., CH-5303 Wurenlingen, Switzerland): Thermal stability of the super-alloys inconel-625 and nimonic-86. *J. Nucl. Mater.* 101/1981/243
- KOLLER, J., KILLMANN, E. (c/o E. Killmann, Tech. Univ. München, Lehrstuhl Macromolec. Stoffe, Inst. Tech. Chem., D-8046 Garching, GFR): Dissolution and solution enthalpies of poly(ethylene glycol)s in water and benzene.1. Experimental results. *Macromol. Chem.* 182/1981/3579 (in German)
- KOLTA, G.A., SABA, A.E., ELROUDI, A.M. (c/o A.E. Saba, Natl. Res. Ctr., Cairo, Egypt): Effect of iron or iron oxide additions on the reducibility of tricalcium phosphate by carbon. *Thermochim. Acta* 52/1982/53
- KOLTA, G.A., SABA, A.E., ELROUDI, A.M. (c/o A.E., Saba, Natl. Res. Ctr., Cairo, Egypt): Effect of copper additions on the reducibility of tricalcium phosphate by carbon. *Thermochim. Acta* 53/1982/333
- KONDRATEV, Y.V., ERSHOV, S.D., SYVOROV, A.V. (A.A. Zhdanov State Univ., Leningrad, B-164 USSR): Calorimetric determination of evaporation enthalpies of $GaCl_3/C_2H_5/2O$, $GaCl_3/C_2H_5/2S$. Molecular complexes. *Zh. Obshch. Khim.* 52/1982/236 (in Russian)
- KONONENKO, W., ROBINSON, B.W., SELOVE, W., THEODOSION, G.E. (Univ. Penn., Dept. Phys., Philadelphia, Pa., 19104 USA): Tests for a new type of calorimeter, the SPED. *Nucl. Instrum. Methods*:186/1981/585
- KOPYRIN, A.A., SHOKIN, V.V., MINOROV, V.E. (Lensovet Technol. Inst., Deft. Nucl. Power Engr. Radiochem. Proc., Leningrad, USSR): Thermochemical investigation of the effect of ammonium, magnesium, lithium and sodium cations on the formation of europium/3/ nitrate complexes in aqueous solutions. *Izv. Vyssh. Uch. Zav.* 24/1981/1327 (in Russian)
- KOSTIKOV, V.I., RAKOCH, A.G., KRAVETSKII, G.A., AIRAPETOV, B.L., POPOSEVA, G.D., DRUGOV, P.N., SUBBOTINA, I.G.: Influence of heating procedure on the process of heat-temperature oxidation in composite carbide-graphite materials. *Inorg. Mater. transl. Izv. Akad. Nauk SSR Neorg. Mater.* 17/1981/352
- KOTKATA, M.F., EL-DEN, M.B. (Ain Shams Univ., Fac. Sci., Dept. Phys., Cairo, Egypt): Hardness and thermal conductivity of As- Se - Te chalcogenide glasses. *J. Phys.* 42/1981/C4-931
- KRAUSE, S., ISKANDAR, M., IQBAL, M. (Rensselaer Polytech. Inst., Dept. Chem., Troy, N.Y., 12181 USA): Properties of low molecular weight block copolymers.1. Differential scanning calorimetry of styrene-dimethylsiloxane diblock copolymers. *Macromolecules* 15/1982/105
- KRESTOV, G.A., PROROKOV, V.N., DOLOTOV, V.V. (Ivanovo Chem. Technol. Inst., Ivanovo, USSR): Calorimeter of measuring the enthalpies of dissolution of gases in liquids. *Zh. Fiz. Khim.* 56/1982/238 (in Russian)
- KRISPIN, P. (Akad. Wissensch. DDR, Zent. Inst. Elektronenphys., Mohrenstr. 40-41, DDR-1080 Berlin): Thermochemical model applied to a deep-level defect in GaP. *Phys. Status Solidi* 69/1982/193
- KUAN, W.Y., CHEN SY-SEN, YI SUN-SHENS, WANG, Z., CHENG, W., GAROCHE, P. (Acad. Sinica, Inst. Phys., Beijing, Peoples R. China): The effect of heat treatment on the super-conducting properties of fast

- quenched Al-Si. *J. Low Temp. Phys.* **46** /1982/237
- KUHNERT-BRANDSTÄTTER, M., SEIDEL, D. (Innsbruck Univ., Inst. Pharmakognosie, A-6020 Innsbruck, Austria): Thermoanalytical investigations on organic substances forming liquid crystals. I. One-component systems. *Microchim. Acta* **1**/1982/243 (in German)
- KULIEVA, N.A., BABANLY, M.B. (S.M. Kirov State Univ., Baku, AzSSR): Phase equilibria in the Tl_2S - GeS_2 system, and heats of melting of Tl_4GeS_4 and $TlGeS_3$. *Inorg. Mater.* transl. *Izv. Akad. Nauk SSSR Neorg. Mater.* **17**/1981/278
- KUMAR, A. (Indian Inst. Technol., Dept. Phys., Kharagpur, 721302 W. Bengal, India): Thermal conductivity of yttrium iron garnets at low temperatures. *Phys. Lett. A* **87**/1982/421
- KUMAR, A., SRIVASTAVA, G.C. (Indian Inst. Technol., Dept. Phys., Kharagpur, 721302 W. Bengal, India): Thermal conductivity analysis of germanium at low temperatures. *Phys. Status Solidi B* **109**/1982/K123
- KUMARAN, M.K., HEDWIG, G.R., WATSON, I.D. (Massey Univ., Dept. Chem. Biochem. and Biophys., Palmerston North, New Zealand): The relative partial molar enthalpies and apparent molar volumes of aqueous solutions of L-alanylglycine and of DL-alanylglycine. *J. Chem. Thermodyn.* **14**/1982/93
- LACEY, A.A., WAKE, G.C. (Victoria Univ. Wellington, Dept. Math., Wellington, New Zealand): Thermal ignition with variable thermal conductivity. *IMA J. Appl. Math.* **28** /1982/23
- LAGASSE, R.R., COHEN, R.E., LETTON A. (Sandia Natl. Labs., Albuquerque, N.M., 87185 USA): Characterizing the kinetics of volume recovery in glasses by instantaneous temperature-jump experiments. *J. Polym. Sci. Polym. Phys. Ed.* **20**/1982/375
- LÁNSKÁ, B., POSTNIKOV, L.M., ALEKSANDROV, A.L., ŠEBENDA, J. (Czechoslovak Acad. Sci., Inst. Macromolec. Chem., CS-16206 Prague, 6 Czechoslovakia): Kinetics of the initial stage of initiated thermal oxidation of caprolactam and N-octylbutyramide. *Collect.* **46**/1981/2650
- LAVAT, A.E., ESCOBAR, M.E., BARAN, E.J. (Univ. Nacl. La Plata, Fac. Ciencias Exactas, Area Quim. Inorgan., RA-1900 La Plata, Argentina): Characterization of the thermal decomposition products of the rare earth decavanadates. *Thermochim. Acta* **52**/1982/359
- LAVRENKO, V.A., SHEMET, V.Z., DOLUKHANIAN, S.K., KALINICHENKO, A.M., FRANTSEVICH, I.N. (Kiev, Polytech. Inst., Kiev, UkSSR): Thermal destruction of titanium hydride in argon. *Dokl. Akad. Nauk SSSR* **262**/1982/136 (in Russian)
- LAVRENTIEV, M.M., AMONOV, B.K.: Uniqueness and estimation of the solution stability of an internal problem for the thermal conductivity equation. *Dokl. Akad. Nauk SSSR* **262**/1982/528 (in Russian)
- LAWLESS, W.N., RYTZ, D., HÖCHLI, U.T. (Lake Shore Cryotron, Inc., 64 E. Walnut St., Westerville, Ohio, 43081 USA): Thermal and elastic properties of $KTa_{0.988}Nb_{0.012}O_3$ at low temperatures. *Ferroelectrics* **38** /1981/809
- LAZAREV, V.B., PANASYUK, G.P., BODOVA, G.P., KESLER, Y.A. (N.S. Kurnakov Gen. and Inorgan. Chem. Inst., Moscow, USSR): Microcalorimetric study of the thermodynamics of the dehydration of amorphous silica. *Thermochim. Acta* **52**/1982/41
- LEDERER, P., LUŇÁK, S., MĀCOVÁ, E., VEPŘEK-ŠIŠKA, J. (Czechoslovak Acad. Sci., Inst. Inorgan. Chem., CS-16000 Prague, 6 Czechoslovakia): Oxidation of benzaldehyde by dioxygen. The thermal reaction. *Collection* **47**/1982/392
- LEDNEVA, O.A., PARIISKII, G.B., TREZVOV, V.V., TOPTYGIN, D.Y. (Acad. Sci. USSR, Inst. Chem. Phys., Moscow, V-71 USSR): Study of thermal and thermo-oxidative degradation of polyamidoimide films by ESR method. *Vysokomol. Soedin A* **24**/1982/361 (in Russian)

- LEVCHENKO, A.A., MEZHOVDEGLIN, L.P. (Acad. Sci. USSR, Inst. Solid State Phys., Moscow, V-71 USSR): Heat conductivity of perfect and plastically deformed He₄ crystals grown in a bent thin capillary tube. *Zh. Eksp. Zh.* 82/1982/278 (in Russian)
- LEVSHANOV, V.S., TITKOVA, Z.L., KHA-BENKO, A.V., DOLMATOV, S.A.: Computer calculation of the kinetic parameters of thermal degradation from thermogravimetric data. *J. Appl. Chem. USSR transl. Zh. Prikl. Khim.* 54/1981/1408
- LEWIS, D.K., BOSCH, H.W., HOSSENLOPP, J. M. (Colgate Univ., Dept. Chem., Hamilton, N.Y., 13346 USA): Thermal isomerization of cyclopropane to propene in the presence of boron trichloride at T ~ 1000-1300K. *J. Phys. Chem.* 86/1982/803
- LIELMEZS, J., ASTLEY, K.G., MC EVOY, J. A. (Univ. British Columbia, Dept. Chem. Engr., Vancouver, BC, V6T 1W5 Canada): New saturated vapour pressure-temperature relation. *Thermochim. Acta* 52/1982/9
- LILLEY, T.H., TASKER, I.R. (Univ. Sheffield, Dept. Chem., Sheffield S3 7HF, S. Yorkshire, England): Aqueous solutions containing amino acids and peptides. 12. Enthalpy of interaction of α -alanine, α -amino-butyric acid, norvaline and norleucine with sodium chloride at 298.15K. *J. Chem. Soc. Faraday Trans.1*, 78/1982/1
- LOMAS, J.S., THORNE, M.P. (c/o M.P. Thorne, Univ. Keele, Dept. Chem., Keele ST5 5BG Staffordshire, England): Structure and isotope effects upon the thermal decomposition of carbamates of highly congested tertiary alcohols. *J. Chem. Soc. Perkin Trans.11* /1982/221
- LUPINACCI, D., ANDRUZZI, F., PACI, M., MAGAGNINI, P.L. (Univ. Pisa, Fac. Ingn., Ctr. Macrolec., Ist. Chim. Ind. ed Appl. CNR, I-56100 Pisa, Italy): Studies on comb-like polymers. 5. A. dsc investigation of samples of poly/octadecylethylene/ with different history. *Polymer* 23/1982/277
- MACCALLUM, S.R., (Univ. St. Andrews, Dept. Chem., St. Andrews KY16 9ST, Fife, Scotland): The correct rate expression for non-isothermal kinetic processes. *Thermochim. Acta* 53/1982/375
- MAHAPATRA, P.P., MISHRA, H., CHICHERUR, N.S. (Khallikote Coll., Post Grad. Dept. Chem., Berhampur, 760001 India): Solubility of hydroxyapatite and related thermodynamic data. *Thermochim. Acta* 52 /1982/333
- MAHARAJH, D.M. (Univ. W. Indies, Dept. Chem., St. Augustine, Trinidad and Tobago): Thermodynamics of the chlorides of potassium, sodium, rubidium and caesium in tetramethyl-urea-water mixtures from conductance data at 30°C. *Thermochim. Acta* 52 /1982/83
- MALARD, C., PEZERAT, H., HERPIN, P., TOLEDANO, P. (Univ. Paris 6 E. Chim. Solides Lab., 133 F-75230 Paris, 05 France): Structure et stabilité thermique des deux formes du formiate de magnésium dihydraté. *J. Solid State Chem.* 41/1982/67
- MANI, B., RAO, V.S. (Univ. Penn, Philadelphia, Pa., 19104 USA): Structural and phase changes in iron/III/- aluminium/III/ mixed hydroxide-oxide system: a thermoanalytical study. *Thermochim. Acta.* 53/1982/175
- MAROTTA, A., SAIELLO, S., BRANDA, F., BURI, A. (Univ. Naples, Fac. Ingn., Inst. Chim., I-80134 Naples, Italy): Activation energy for the crystallization of glass from DTA curves. *Mater. Sci.* 17/1982/105
- MASTROIANNI, M.L., POLING, B.E. (Univ. Missouri, Dept. Chem. Engr., Rolla, Mo., 65401 USA): Energy storage capacities of reversible liquid phase chemical reactions. *Thermochim. Acta* 53/1982/141
- MASUDA, Y. (Niigata Univ., Dept. Gen. Educ., Niigata, 95021 Japan): Thermal decompositions of formates. VII. Thermal decomposition of yttrium formate dihydrate. *Thermochim. Acta* 53/1982/215
- MATHUR, A.B., MATHUR, G.N. (Harcourt Butler Technol. Inst., Dept. Plast Technol., Kanpur, 208002 Uttar Pradesh, India): Thermo-oxidative degradation of isotactic

- polypropylene film: structural changes and its correlation with properties. *Polymer* 23/1982/54
- MATUSZAK, M.L., TAYLOR, G.W. (Univ. Calif., Los Alamos Natl. Lab., Los Alamos, N.M., 87545 USA): The flowing-afterglow technique, an approach to the study of polymer thermal degradation. *J. Appl. Polym. Sci.* 27/1981/461
- MAYRATH, J.E., WOOD, R.H. (c/o R.H. Wood, Univ. Delaware, Dept. Chem., Newark, Del., 19811 USA): Enthalpy of dilution of aqueous sodium chloride at 345.15 to 472.95K measured with a flow calorimeter. *J. Chem. Thermodyn.* 14/1982/15
- MAZÓN-ARECHEDERRA, J.M., DELGADO QUINTERA, M.P., BARRALES-RIENDA, J.N. (CSIC, Inst. Plast y Caucho, Madrid, Spain): Kinetics of isothermal degradation of polyvinyl bromide (PVBr). A typical case of „autocatalytic” thermal degradation. *J. Polym. Sci. Polym. Chem. Ed.* 20/1982/25
- MCMILLEN, D.F., LEWIS, K.E., SMITH, G.P., GOLDEN, D.M. (c/o D.M. Golden, Sri Int., Dept. Chem. Kinet., Menlo Pk., Calif., 94024 USA): Laser-powered homogeneous pyrolysis. Thermal studies under homogeneous conditions, validation of the technique, and application to the mechanism of azo compound decomposition. *J. Phys. Chem.* 86/1982/709
- MEHANDJIEV, D., NIKOLOVA-ZCHECHEVA, E. (Bulgarian Acad. Sci., Inst. Gen. and Inorgan. Chem., BU-1040 Sofia, Bulgaria): A magnetic study of the formation of NiCo_2O_4 . *Thermochim. Acta* 51/1981/343
- MEHTA, B.J. (Sanrashtra Univ., Dept. Phys., Rajkot 360005 Gujarat, India): Chemical and thermal etching of calcite cleavages. *Indian J. Pure Appl. Phys.* 19/1981/1206
- MELESHKO, V.N., POKONOVA, Y.N., PROSKURYAKOV, V.A. (Lensovet Technol. Inst., Leningrad, USSR): Thermal analysis of filled altns. *J. Appl. Chem. USSR* transl. *Zh. Prikl. Khim.* 54/1981/777
- MEYER, G.C., WIDMAIER, J.M. (Ecole Appliquée des Hauts Polymères, 4 Rue Boussingault, F-67000 Strasbourg, France): Glass transition temperatures of ABA poly(styrene-*b*-isoprene) block copolymers by differential scanning calorimetry. *J. Polym. Sci. Polym. Phys. Ed.* 20/1982/389
- MITRA, S.S. (Indian Inst. Technol., Ctr. Cryogen. Engr., Kharagpur, 2 India): Effect of dilution on the transition temperature and specific heat of simple ferroelectrics having second-order displacive phase transitions. *J. Phys. C* 15/1982/453
- MIYAMOTO, Y., KOJIMA, T., HOSAKA, Y. (Natl. Def. Acad., Dept. Chem., 10-20 Nashirimizu 1 Chome, Yokosuka, Kanagawa, 239 Japan): Synthesis and thermal stability of isomeric benzamide oligomers. *Kobunshi Ronbunshu (Jap. Polym. Sci and Techn.)* 39/1982/41
- MIYOKAWA, K., HIROSHIMA, H., MASUDA, I. (Fukuoka Univ., Fac. Sci., Dept. Chem., Nishi-ku, Fukuoka 81401 Japan): Kinetics of thermal pyridine dissociation of Ni/N-aryl-salicylideneaminato/2/pyridine/2 and solid phase. *Bull. Chem. Soc. Jap.* 55/1982/104
- MIZUTA, S., KUMAGAI, T. (Natl. Chem. Lab. Ind., Tsukuba Res. Ctr., Div. Energy Chem., Yatabe, Ibaraki, 305 Japan): Thermochemical hydrogen production by the magnesium-sulfur-iodine cycle. *Chem. Lett.* 1982/81
- MOHANTY, S., DAS, P.B. (c/o P.B. Das, Ravenshaw Coll., Dept. Chem., Cuttack, 753003 Orissa, India): Thermodynamics of $\text{KCl}+\text{water}+\text{glucose}$ and $\text{NaCl}+\text{water}+\text{glucose}$ systems from viscosity data. *Thermochim. Acta* 51/1981/367
- MOISE, A., PRITCHARD, H.O. (York. Univ., Ctr. Res. Expt. Space Sci., Downsview, Ontario, M3J 1P3 Canada): Thermal explosions with variable thermal conductivity. *Can. J. Chem.* 60/1982/165
- MOKICHEV, N.N., PAKHOMOV, L.G. (N.I. Lobachevskii State Univ., Chem. Res. Inst., Gorki, USSR): The formation enthalpy and equilibrium configuration of a lattice vacancy in naphthalene crystals. *Zh. Fiz. Khim.* 56/1982/223 (in Russian)
- MONACI, A., TARLI, F., CHIOZZINI, G., ZUGARINI, M. (CNR, I-00131 Rome, Italy): Thermal behaviour of nickel complexes of

- the methyl esters of dithiocarbazic and N-substituted dithiocarbazic acids. *Thermochim. Acta* 53/1982/309
- MONAKHOV, V.T. (All Union Fire Prevent Res. Inst., Moscow, USSR): Thermodynamics of substance inflammability. *Zh. Vses. Khim. Obshch.* 27/1982/17 (in Russian)
- MORI, K., KIKUCHI, I., NAKAMURA, Y. (Matsushita Elect. Ind. Co. Ltd., Mat. Res. Lab., Moriguchi, Osaka, Japan): Effects of 6-anilino-1,3,5-triazine-2,4-dithiol zinc stearate, and barium stearate on the thermal stabilization of PVC. *J. Appl. Polym. Sci.* 27/1982/1067
- MOROZ, Y.A., KRIVOBOK, V.I., ZAYATS, M.N. (Donetsk State Univ., Donetsk, UkSSR): Thermal stability of ammonium 9-tungstate/III/ ammonium nickelous tungstate/ and ammonium 9-tungstocobaltate/III/ ammonium cobaltous tungstate/. *Inor. Mater. transl. Izv. Akad. Nauk SSSR Neorg. Mater.* 17/1981/796
- MOYNIHAN, C.T., SHAHRIARI, M.R., BARDAKCI, T. (Rensselaer Polytech. Inst., Dept. Mat. Engr., Troy, N.Y., 12181 USA): Thermal analysis of melting and freezing of jet and diesel fuels. *Thermochim. Acta* 52/1982/131
- MRAW, S.C. (Exxon Res. and Engr. Co., Corp. Res. Labs., POB 45, Linden, N.J., 07036 USA): Mathematical treatment of heat flow in differential scanning calorimetry and differential thermal analysis instruments. *Rev. Sci. Instr.* 53/1982/228
- MRAZ, T.J., RAJESHWAR, K., DUBOW, J.B. (Colorado State Univ., Dept. Elect. Engr., Ft. Collins, Colo., 80523 USA): Thermophysical characterization of oil sands. 2. Acoustic properties. *Fuel* 61/1982/240
- MUKHERJEE, A.K., GUPTA, A. (Indian Inst. Technol., Dept. Textile Technol., New Delhi, 110016 India): Dehydrochlorination of poly(vinyl chloride) in pyridine. III. Thermal and mechanical properties. *J. Macromol. Sci. A* 16/1981/1323
- MUNIR, Z.A., RICE, J.L. (Univ. Calif. Davis, Coll. Engr., Dept. Mat. Sci. and Engr., Davis, Calif., 95816 USA): The thermal decomposition of cadmium and cobalt carbonates. *High Temp. Sci.* 14/1981/171
- MURAKAMI, M., BASSON, J.H. (IBM Corp., Thomas J. Watson Res. Ctr., Yorktown Hts., N.Y., 10598 USA): Thermal stability of Pb-alloy Josephson junction electrode materials. V. Effects of repeated cycling between 298 and 4.2K of Pb-Bi counter electrode. *J. Appl. Phys.* 53/1982/346
- NABAR, M.A., AJGAONKAR, V.R. (Univ. Bombay, Dept. Chem., Bombay, 400098 India): Studies on selenates. VIII. The thermal decomposition of double selenate hydrates of homium and ytterbium with rubidium. *Thermochim. Acta* 51/1981/38
- NABAR, M.A., AJGAONKAR, V.R. (Univ. Bombay, Dept. Chem., Bombay, 400098 India): Studies on selenates. IX. Thermal decomposition of double selenates of cerium/III/ with rubidium and caesium. *Thermochim. Acta* 52/1982/351
- NAGATA, I., OGASAWARA, Y. (Kanazawa Univ., Dept. Chem. Engr., Kanazawa Ishikawa, 920 Japan): Prediction of ternary excess enthalpies from binary data. *Thermochim. Acta* 52/1982/155
- NAKAGAWA, M., SATO, M., WATANABE, Y., NINO, T., HATANAKA, Y., KANAOKA, Y. (Tohoku Univ., Dept. Phys., Sendai, Miyagi, 980 Japan): 3-Hydroperoxy-3-methyl-2-phenyl-3H-indole. Thermal decomposition and chemiluminescence. *Heterocycles* 19/1982/503
- NATH, A., BENDER, E. (Univ. Kaiserslautern, Lehrstuhl Tech. Thermodynam., Fachbereich Maschinenwesen, D-6750 Kaiserslautern, GFR): On the thermodynamics of associated solutions. I. An analytical method for determining the enthalpy and entropy of association and equilibrium constant for pure liquid substances. *Fluid Phase Equilibria* 7/1981/275

- NATU, G.N., KULKARNI, S.B., DHAR, P.S. (Univ. Poona, Dept. Chem., Poona 411007, Maharashtra, India): Thermal decomposition studies on ethylxanthato complexes of iron and nickel. *Thermochim. Acta* 52/1982/31
- NAUMOV, S.V., MOZHAEV, A.P., TRETYAKOV, Y.D., TOPOR, N.D. (M.V. Lomonosov State Univ., Moscow, 117234, USSR): Use of differential scanning calorimetry methods in studying the crystallization processes of aqueous sulfate solutions. *Zh. Fiz. Khim.* 56/1982/232 (in Russian)
- NAVARRO, J., CESARI, E., TORRA, V., MACQUERON, J.L., DUBES, J.P., TACHOIRE, H. (Escuela Tecn. Super, Ingn. Ind., Catedra Fis., Barcelona, 28 Spain): Description du comportement des calorimètres à conduction à l'aide de modèles. *Thermochim. Acta* 52/1982/175
- NELMES, R.J., MEYER, G.M., TIBBALLS, J.E. (Univ. Edinburgh, Dept. Phys., Edinburgh EH9 3J2 Midlothian, Scotland): The crystal structure of tetragonal KH_2PO_4 and KD_2PO_4 as a function of temperature. *J. Phys. C* 15/1982/59
- NELMES, R.J., TIBBALLS, J.E. (Univ. Edinburgh, Dept. Phys., Edinburgh EH9 3J2, Midlothian, Scotland): Structural studies of KH_2PO_4 and isomorphs as a function of temperature and pressure. *Ferroelectrics* 39/1981/1041
- NESTEROVA, E.I., MOROZOVA, N.Y., SIMULIN, Y.N.: The calculation method of heats of combustion of halogen-containing polymers. *Zh. Fiz. Khim.* 56/1982/208 (in Russian)
- NESMEYANOV, N.A., REBROVA, O.A., BERMAN, S.T., REUTOV, O.A. (M.V. Lomonosov State Univ., Moscow, 117234 USSR): The properties of tetraphenylstibonium trichloroacetate and the products of its decompositions. *Dokl. Akad. Nauk SSSR* 261/1981/1152 (in Russian)
- NEWSHAM, D.M.T., MENDEZ-LECANDA, E. J. (Univ. Manchester, Inst. Sci. and Technol., Dept. Chem. Engn., Manchester, M60 1QD, Lancashire, England): Isobaric enthalpies of vaporization of water, methanol, ethanol, propan-2-ol, and their mixtures. *J. Chem. Thermodyn.* 14/1982/291
- NGUYEN, T., ZAVARIN, E., BARRAL, E.M. (Arco Chem. Co., Newton SQ, Pa., 19073 USA): Effects of various parameters in differential scanning calorimetry of hydrogen-peroxide-treated lignocellulose. *J. Appl. Polym. Sci.* 27/1982/1019
- NIESSEN, A.K., DE BOER, F.R. (Philips Res. Labs., 5600 MD Eindhoven, Netherlands): The enthalpy of formation of solid borides, carbides, nitrides, silicides and phosphides of transition and noble metals. *J. Less-Common Metals* 82/1981/75
- NUZZIO, D.B. (Ortho Pharmaceut. Corp., Raritan, N.J., 08869 USA): A new instrument for thermoluminescence research. *Thermochim. Acta* 52/1982/245
- O'BRIEN, P., ROSS, S.D. (Univ. London Chelsea Coll., Dept. Chem., London, SW3 6LX England): A new differential method for determining orders and rates of reactions and its application to solid state reactions. II. Some empirical observations on the isothermal dehydration of calcium oxalate monohydrate. *Thermochim. Acta* 53/1982/195
- OETTING, F.L., WEST, E.D. (Rockwell Inst., POB 464, Golden, Colo., 80401 USA): An adiabatic calorimeter for the range 300 to 700K. *J. Chem. Thermodyn.* 14/1982/107
- OGUNI, M., WATANABE, K., MATSUO, T., SUGA, H., SEKI, S. (c/o H. Suga, Osaka Univ., Dept. Chem., Toyonaka, Osaka, 560 Japan): Construction of an adiabatic calorimeter workable under constant high-pressure. *Bull. Chem. Soc. Jap.* 55/1982/77
- OLLIVON, M., PERRON, R. (CNRS Org. Molec. and Macromolecul., BP 28, F-94320 Thiais, France): Measurements of enthalpies and entropies of unstable crystalline forms of saturated even monoacid triglycerides. *Thermochim. Acta* 53/1982/183

- OSIPENKO, I.F., MARTINOVICH, V.I., PROKOPCHUK, N.P., BATURA, L.N. (Acad. Sci. BeSSR, Inst. Phys. and Organ. Chem., Minsk, BeSSR): Mechanical and thermal properties of grafted polyethylene - terephthalate copolymers with polyacrylic acid. *Dokl. Akad. Nauk BSSR* 26/1982/151 (in Russian)
- PAETZOLD, R., REICHENBÄCHER, M., APPENROTH, K. (Univ. Jena, Sekt. Chem., DDR-6900 Jena, GDR): The carbon nitrogen double bond. Spectra, structure, thermal and photochemical E/Z isomerization. *Z. Chem.* 21/1981/421 (in German)
- PARISOD, CH. J., PLATTNER, E. (c/o E. Plattner, Swiss Fed. Inst. Technol., Inst. Chem. Engn., CH-1015 Lausanne, Switzerland): Calorimeter for the direct measurement of enthalpy of vaporization at high pressure and high temperature. *Rev. Sci. Instr.* 53/1982/54
- PATEL, R.D., PATEL, M.R., BHARDWAJ, I. S. (Indian Petrochem. Corp. Ltd., Res. Ctr., Baroda, 391346 India): Synthesis and thermal study of poly-N-p-substituted phenylmaleimides. *Thermochim. Acta* 53/1982/163
- PATEL, R.D., PATEL, M.R., BHARDWAJ, I.S. (c/o M.R. Patel, Sardar Patel Univ., Dept. Chem., Vallabh Vidyanagar, 388120 Gujarat, India): The thermal behaviour of poly-N-arylmaleimides. *Thermochim. Acta* 51/1981/373
- PATIL, K.C., GAJAPATHY, D., KISHORE, K. (Indian Inst. Sci., Dept. Inorgan. and Phys. Chem., Bangalore, 560012 India): Thermal reactivity of metal oxalate hydrazinates. *Thermochim. Acta* 52/1982/113
- PATRA, C., DAS, P.K. (Ravenshaw Coll., Mayurbhanj Chem. Lab., Cuttack, 753003 India): Thermodynamics of the transfer of (H^+SCN^-) from water to methanol+water mixtures from the study of silver-silver thiocyanate electrodes. *Thermochim. Acta* 53/1982/357
- PAU, C.F., HEHRE, W.J. (c/o W.J. Hehre, Univ. Calif. Irvine, Dept. Chem., Irvine, Calif., 92717 USA): Heat of formation of hydrogen isocyanide by ion cyclotron double resonance spectroscopy. *J. Phys. Chem.* 86/1982/321
- PAYSON, J.S., WENGER, L.E. (Wayne State Univ., Dept. Phys., Detroit, Mich., 48202 USA): Specific heat of wakefield thermal compound from 2 to 40K. *Cryogenics* 22/1982/44
- PELLETIER, M.J., THORSHEIM, H.R., HARRIS, J.M. (c/o J.M. Harris, Univ. Utah, Dept. Chem., Salt Lake City, Utah, 84112 USA): Laser-induced thermal diffraction for calorimetric absorption measurements. *Anal. Chem.* 54/1982/239
- PEREÑA, J.M., BENAVENTE, R., FATOU, J. M.G. (CSIC, Inst. Plast y Caucho, Fisicoquim. y Fis. Polimeros Unidad, Madrid, Spain): Influence of thermal and mechanical histories on the viscoelastic behavior of drawn polyethylene. *J. Appl. Polym. Sci.* 27/1982/687
- PÉTER, A., ÁCS, G., HORVÁTH, I., HUHN, P. (c/o P. Huhn, József Attila Univ. Sci., Dept. Inorgan. And Analyt. Chem., H-6720 Szeged, Hungary): Decomposition of propanaldehyde initiated by the thermal decomposition of azoethane. *Acta Chim. Acad. Sci. Hung.* 108/1981/235
- POPEL, P.P. (T.G. Shevchenko State Univ., Kiev, UkSSR): Thermal decomposition of iron(III) dichromates and alkaline metals. *Zh. Neorg. Khim.* 27/1982/143 (in Russian)
- POPEL, P.P., BOLDOG, I.I. (T.G. Shevchenko State Univ., Kiev, UkSSR): Thermal decomposition of basic gallium and indium chromates. *Inorg. Mater. transl. Izv. Akad. Nauk SSSR Neorg. Mater.* 17/1981/334
- PRADHAN, S.D. (Natl. Chem. Lab., Poona, 411008 Maharashtra, India): The chain length and isomeric effect of alcohol on the excess properties of amine-alcohol systems - excess free energy of mixing, enthalpy of mixing and volume change on mixing. *Proc. Indian Acad. Sci.* 90/1981/261

- RACHWALSKA, M., MASSALSKA-ARODZ, M., MOŚCICKI, J.K., JAICH, A. (Jagiellonian Univ., Inst. Chem., PL-30060 Kraków, Poland): Calorimetric study of NPOB. *Mol. Cryst. Liquid Cryst.* 80/1982/157
- RAHNAMAL, H. (Int. Telecommun. Satellite Org., 490 L'Enfant Plaza, Washington, D.C., 20024 USA): Pyroelectric differential thermal analyzer. *Ferroelectrics* 38/1981/963
- RAHNAMAL, H. (Int. Telecommun. Satellite Org., 490 L'Enfant Plaza, Washington, D.C., 20024 USA): Pyroelectric enthalpimetric sensor. *Anal. Chem.* 54/1982/142
- RAJESHWAR, K., JONES, D.B., DUBOW, J.B. (Colorado State Univ., Dept. Elect. Engn., Ft. Collins, Colo., 80523 USA): Thermophysical characterization of oil sands. 1. Specific heats. *Fuel* 61/1982/237
- RASHEED, K., WARKENTIN, J.D. (Ansul Co., Ctr. Res. and Dev., POB 1165, Weslaco, Tex., 78596 USA): Thermal decompositions of dinitropyridyl and dinitrothienyl dithiocarbamates and tert-butyl trithiocarbonates. *J. Heterocycl. Chem.* 18/1981/1581
- RAZUVAEV, G.A., LATYAEVA, V.N., MAR'IN, V.P., VYSHINSKAYA, L.I., KORNEVA, S.P., ANDRIANOV, Y.A., KRASIL'NIKOVA, E.V. (Acad. Sci. USSR, Inst. Chem., Gorki, USSR): Thermal decomposition of organo-bielemental vanadium compounds Cp_2V/ER_3 / $ER_3 = GeEt_3, SnEt_3, CH_2SiMe_3, SeGeEt_3$. *J. Organometal. Chem.* 225 /1982/233
- REICH, L., STIVALA, S.S. (Stevens Inst. Technol., Dept. Chem. and Chem. Engn., Hoboken, N.J., 07030 USA): Computer-determined kinetic parameters from TG curves.III. *Thermochim. Acta* 52/1982/337
- REICH, L., STIVALA, S.S. (Stevens Inst. Technol., Dept. Chem. and Chem. Engn., Hoboken, N.J. 07030 USA): Computer-determined kinetic parameters from TG curves.IV. *Thermochim. Acta* 53/1982/121
- ROACH, P.R., MEISEL, M.W., ECKSTEIN, Y. (Argonne Natl. Lab., Div. Solid State Sci., Argonne, Ill., 60439 USA): Discrepancy in the heat capacity of liquid 3He . *Phys. Rev. Lett.* 48/1982/330
- RODANTE, F., PASQUALI, M. (Univ. Rome, Fac. Ingegneria, Ist. Chim., I-00100 Rome, Italy): A study of the proton transfer of the nitro-substituted benzoic acids in water-dimethylsulfoxide mixtures compared with the same process in the gaseous phase. *Thermochim. Acta* 61/1981/191
- RODANTE, F., PASQUALI, M. (Univ. Rome, Fac. Ingn., Ist. Chim., I-00100 Rome Italy): Study of the proton transfer processes of nitrophenols to nitrobenzoic acids and to benzoic acid in water-dimethylsulfoxide mixtures compared with the same processes in the gaseous phase. *Thermochim. Acta* 52 /1982/225
- RODANTE, F., PISTOIA, G. (Univ. Rome, Fac. Ingn., Ist. Chim., I-00100 Rome, Italy): Study of the proton transfer processes of hydroxy-substituted benzoic acids in water-dimethylsulfoxide mixtures compared with the same processes in the gaseous phase. *Thermochim. Acta* 52/1982/217
- RODER, H.M., NIETO DE CASTRO, C.A. (NBS, Div. Thermophys. Properties, Natl. Engr. Lab., Boulder, Colo., 80303 USA): Thermal conductivity of liquid propane. *J. Chem. Engr. Data* 27/1982 /12
- ROSENVOLD, R.J., DUBOW, J.B., RAJESHWAR, K. (c/o K. Rajeshwar, Colorado State Univ., Dept. Elect. Engn., Ft. Collins, Colo., 80523 USA): Thermal analyses of Ohio bituminous coals. *Thermochim. Acta* 53 /1982/321
- ROSHCHINA, V.R., BAYANOV, A.P. (Bryansk Transport Engr. Inst., Bryansk, USSR): Thermochemistry of gadolinium and cadmium alloy-formations. *Zh. Fiz. Khim.* 55 /1981/3017 (in Russian)
- ROSS, R.G., ANDERSSON, P. (Univ. E. Anglia, Sch. Math. and Phys., Norwich NR4 7TJ, Norfolk, England): Thermal conductivity, heat capacity and phase diagram of tetrahydrofuran under pressure. *Mol. Cryst. Liquid Cryst.* 78/1981/35

- SABBAH, R., GOMEZ, L.A.T. (CNRS, Ctr. Thermodynam. et Microcalorimétrie, 26 Rue 141ème RIA, F-13003 Marseille, France). Thermodynamique de substances sulfurées.III. Etude thermochimique de la thioacétamide et de la thiobenzamide. *Thermochim. Acta* 52/1982/285
- SABRAH, B.A., BURHAM, N., EL-DIDAMONY, H. (Cairo Univ., Fac. Educ., Fayoum, Egypt): Thermal studies of basalt and clay for the manufacture of building bricks. *Thermochim. Acta* 51/1981/315
- SAFFELL, J.R., WINDLE, A.H.: The influence of thermal history on internal stress distribution in sheets of PMMA and polycarbonate. *J. Appl. Polym. Sci.* 27/1982/769
- SAGI, S.R., RAMANA, K.V., RAO, M.S.P. (c/o K.V. Ramana, Andhra Univ., Dept. Chem., Waltair, 530003 Andhra Pradesh, India): Studies on thallium oxalates.7. Thermal decomposition of strontium bis/oxalato/diaquothallate/III/ monohydrate. *Indian J. Chem. A* 20/1981/1214
- SAIELLO, S., BRANDA, F., BURI, A., MAROTTA, A. (Univ. Naples, Fac., Ingn., Ist. Chim., I-80134 Naples, Italy): Crystallization of glasses in the $2\text{Na}_2\text{O}\cdot\text{CaO}\cdot 3\text{SiO}_2 - \text{Na}_2\text{O}\cdot 2\text{CaO}\cdot 3\text{SiO}_2$ composition range. *Thermochim. Acta* 52/1982/263
- SAITO, Y., KOBAYASHI, K., MARUYAMA, T. (Tokyo Inst. Technol., Engr. Mat. Res. Lab., Midori-ku, Yokohama, Kanagawa, 227 Japan): DTA and X-ray studies on the phase transition in undoped and yttrium-doped sodium sulfates. *Thermochim. Acta* 53/1982/289
- SAMSONOV, Y.N., PETROV, A.K. (Acad. Sci. USSR, Inst. Chem. Kinet. and Combust., Novosibirsk, 630090 USSR): Homogeneous thermal decomposition of the formyl fluorides HFCO and DF CO. *Kinet. Catal. transl. Kinet. Katal.* 22/1981/429
- SAPEGIN, A.M., BALUEV, A.V., EVDO KIMOV, V.I.: Mass-spectrometric determination of thermochemical characteristics of europium dichloride. *Zh. Fiz. Khim.* 56 /1982/212 (in Russian)
- SASAKI, K., TSUZUKI, T. (Hiroshima Univ., Fac. Engr., Nada-ku, Hiroshima, 730 Japan): Anomaly of specific heat due to kinks. *Solid State Commun.* 41/1982/521
- SATO, T., NAKAMURA, T. (Shizuoka Univ., Fac. Engr., Dept. Appl. Chem., Hamamatsu, Shizuoka 432 Japan): Thermal decomposition of gallium hydroxides. *Thermochim. Acta* 53/1982/281
- SAVVIDES, N., ROWE, D.M. (NCR Canada, Dept. Solid State Chem., Div. Chem., Ottawa, Ontario, K1A 0R9 Canada): Altering the thermal conductivity of phosphorus doped Si-Ge alloys by the precipitation of dopant. *J. Phys. D* 15/1982/299
- SAWHNEY, S.S., MATTA, S.D. (Dav Postgrad. Coll., Dept. Chem., Dehra Dun 248001, India): Kinetics and desolvation of solvated metal complexes of hippuric acid and lapachol from thermogravimetric curves. *Thermochim. Acta* 51/1981/363
- SAWHNEY, S.S., VOHRA, N., CHANDEL, S. K. (Dav P.G. Coll., Dept. Chem., Dehra Dun, 248001 India): Formation constants and thermodynamic functions of Cd/II/, Zn/II/, Pb/II/, VO^{2+} and Co/IV/ with lapachol. *Thermochim. Acta* 52/1982/349
- SCHOTT, F.J., GRUBERT, M., WANGLER, W., ACKERMANN, T. (Univ. Freiburg, Inst. Phys. Chem. 2, D-7800 Feiburg, GFR): A comparative calorimetric study on transfer RNA unfolding. *Biophys. Chem.* 14 /1981/25
- SCOTT, L.T. (Univ. Nevada, Dept. Chem., Reno, Nev., 89557 USA): Thermal rearrangements of aromatic compounds. *Account. Chem. Res.* 15/1982/52
- ŠEBENIK, A., OSREDKAR, U., ŽIGON, M., VIZOVIŠEK, I. (Boris Kidric Inst. Chem., Ljubljana, Yugoslavia): Study of the reaction between urea and formaldehyde by DSC and C-13 NMR spectroscopy. *Angew. Makromol. Chem.* 102/1982/81
- SEGAL, E. (Polytech. Inst. Bucharest, Fac. Chem. Engr., Bucharest, Romania): Fraction-time and fraction-temperature in non-isothermal kinetics. *Thermochim. Acta* 53 /1982/365
- SEGAL, E. (Polytech. Inst. Bucharest, Fac. Chem. Engr., Bucharest, Romania): Thermal desorption in non-isothermal kinetics. *Thermochim. Acta* 53/1982/379

- SERVANT, C., SEVERAC, C.I., QUESNE, CH., LACOMBE, P. (Univ. Paris 11, CNRS, Met. Phys. Lab., 177, F-91405 Orsay, France): Influence of different thermal treatment on the structural transformations occurring in titanium of commercial purity. *J. Microsc. Spectrosc. Electron.* 6/1981/557 (in French)
- SHABATIN, V.P., MOZHAJEV, A.P., TRET'YAKOV, Y.D. (M.V. Lomonosov State Univ., Moscow, 11723 USSR): Determination of the conditions of thermal decomposition of mixed oxalates and sulfates of iron and ammonium in a vibratory fluidized bed. *Inorg. Mater. transl. Izv. Akad. Nauk SSSR Neorg. Mater.* 17/1981/464
- SHAIKHIEV, G.F., SULAIMANOVA, A.S. (A. N. Tupolev Aviat. Inst., Kazan, USSR): Some calculations of ultrasound velocity in simple substances, according to thermal constants. *Zh. Fiz. Khim.* 55/1981/3024 (in Russian)
- SHAMARAI, V., BOHMHAMMEL, K., WOLF, G. (Acad. Sci. USSR, Inst. Met., Moscow, V-71 USSR): The heat capacity of Nb_3SnH_x in dependence on the hydrogen content. *Phys. Status Solidi B* 109/1982/511
- SHARMA, A.K., KUMAR, S., KAUSHIK, N. K. (Univ. Delhi, Dept. Chem., Delhi, 110007 India): Thermal studies on beryllium titanium/zirconium oxalates. *J. Anal. Appl. Pyrol.* 3/1982/271
- SHARMA, S.C., LAKHANPAL, M.L., RUMPAUL, M.L. (Panjab Univ., Dept. Chem., Chandigarh, 160014 India): Enthalpies of mixing of cyclohexane, normalheptane 1,4-dioxane and methylcyclohexane with some binary solvent mixtures. *Indian J. Chem.* A 20/1981/1160
- SHASHIDHAR, R., HERRMANN, J., KLEINHANS, H.D. (Univ. Bochum, Dept. Chem., Phys. Chem. Lab., D-4630 Bochum, 1 GFR): Observation of a smectic A-Smectic A transition at high pressures: optical microscopy and DTA studies on 60PDOB. *Mol. Cryst. Liquid Cryst.* 72/1981/177
- SHASHIDHAR, R., KLEINHANS, H.D., SCHNEIDER, G.M. (Ruhr Univ. Bochum, Dept. Chem., D-4630 Bochum, GFR): Effect of molecular ordering on the nematic-isotropic transition in re-entrant nematic mixtures: a high pressure DTA and optical study. *Mol. Cryst. Liquid Cryst.* 72/1981/119
- SHCHERBAKOVA, E.S., ROMM, I.P., GURYANOVA, E.N., GOLDSHTEIN, I.P., GINEITITE, V.L. (L.Y. Karpov Physicochem. Res. Inst., Moscow, USSR): Calorimetric study of trifluoroacetic acid complexes with esters by the estimation of acid self-association. *Zh. Fiz. Khim.* 56/1982/34 (in Russian)
- SHKLOVSKII, V.A. (Acad. Sci. UkSSR, Inst. Engr. Phys., (Acad. Sci. UkSSR, Inst. Engr. Phys., Kharkov, 108 UkSSR): Thermal instability of the phase transition front during the decay of "frozen" metastable states. *Dokl. Akad. Nauk SSSR* 26/1981/1343 (in Russian)
- SHLOVSKY, V.A. (Acad. Sci. UkSSR, Inst. Engr. Phys., Kharkov, 108 UkSSR): Thermal stability of the phase transition front on the decay of frozen metastable states. *Zh. Eksp. Teor. Fiz.* 82/1982/536 (in Russian)
- SHMERKOVICHGALEVI, G.I. (OrSK Khalilovo Met. Combine OrSK, Khalilovo, USSR): A comparative method of calculating the heat of elements melting. *Zh. Vses. Khim. Obshch.* 27/1982/104 (in Russian)
- SHOPOLOV, N.N. (Sofia Higher Machine and Electr. Engr. Inst., Sofia, Bulgaria): Mixed problem of the equation of heat conductivity with a nonlocal initial condition. *Dokl. Bolg. Akad. Nauk* 34/1981/935
- SIBLINI, A., SOUQUET, E., MESNARD, G. (Univ. Libanaise, Fac. Sci., Hadeth, Lebanon): Simultaneous measurement of thermoelectric power and thermal diffusivity by the thermal pulse method. *Rev. Phys. Appl.* 17/1982/29 (in French)
- SIMMIE, J.M., GARDINER, W.C., EUBANK, C.S. (c/o W.C. Gardiner, Univ. Texas, Dept. Chem., Austin, Tex., 78712 USA): Falloff behavior in propane thermal decomposition at high temperature. *J. Phys. Chem.* 86/1982/799
- SIMONS, S. (Univ. London Queen Mary Coll., Dept. Appl. Math., London E1 4NS England): On the stability of thermal conduction. *Phys. Lett. A* 87/1982/453

- SINGH, B.R., GHOSH, R. (Univ. Roorkee, Dept. Chem., Roorkee, 247672 Uttar Pradesh, India): Thermodynamics of the interaction of some bivalent metal ions with N-arythiovioluric acids. *Thermochim. Acta* 53/1982/257
- SINGH, P.P., NIGAM, R.K., SHARMA, V.K., SHARMA, SP.; SINGH, K.C. (Maharshi Dayanand Univ., Dept. Chem., Rohtak, 124001 Haryana, India): Topological aspect of the excess enthalpies of binary mixtures of non-electrolytes. *Thermochim. Acta* 52/1982/87
- SINGLA, K., GREWAL, G.S., SINGLA, A., RANDKAWA, H.S. (Punjab Agr. Univ., Dept. Plant Breeding, Ludhiana, 141004 Punjab, India): Energy parameters for the m-v type of charge complexes. *Thermochim. Acta* 51/1981/387
- SLADKOVA, T.A., TITOVA, S.N., SHASLOVA, I.V., DOMRACHEV, G.A., KAVERIN, B.S., RAZUVAEV, G.A. (N.D. Zelinskii Organ. Chem. Inst., Moscow, USSR): Catalysts prepared by thermal decomposition of organometallic compounds. I. Germanium catalysts. *Kinet. Catal. transl. Kinet. Katal.* 22/1981/498
- SONE, K., NAGASE, K., KUYA, M.K., GIESBRECHT, E. (Ochanomizu Univ., Fac. Sci., Dept. Chem., Bunkyo-ku, Tokyo, 112 Japan): Thermochemical studies on the lanthanoid complexes of N,N,N',N' tetramethylurea. *Bull. Chem. Soc. Jap.* 55/1982/449
- SPINDLER, K., WAGNER, H.G. (Privates Inst. Software Tech., Darmstadt, GFR): On the thermal unimolecular decomposition of methanol. *Ber. Bunsen Gesell. Phys. Chem.* 86/1982/2
- STEIN, S.E. (US Natl. Bur. Standards, Div. Chem. Kinet., Washington, D.C., 20234 USA): Thermochemical kinetics of anthracene pyrolysis. *Carbon* 19/1981/421
- STEVENSON, J., MARTINIS, J., PRICE, P.B. (Univ. Calif. Berkeley, Dept. Phys. Space Sci. Lab., Berkeley, Calif., 94720 USA): A calorimeter for high-energy heavy ions. *Nucl. Inst. Methods* 188/1981/41
- STOKKA, S., FOSSHEIM, K. (Univ. Trondheim, Norwegian Inst. Technol., Dept. Phys., N-7034 Trondheim, Norway): A simple system for automatic specific heat measurements. *J. Phys. E* 15/1982/123
- STOKKA, S., FOSSHEIM, K. (Univ. Trondheim, Norwegian Inst. Technol., Dept. Phys., N-7034 Trondheim, Norway): Specific heat and phase diagrams for uniaxially stressed $KMnF_3$. *J. Phys. C* 15/1982/1161
- SU, C.H., LIAO, P.K., TUNG, T., BREBRICK, R.F. (c/o R.F. Brebrick, Marquette Univ., Coll. Engn., Program Mat. Sci. and Met., Milwaukee, Wi., 53233 USA): Enthalpy of fusion and thermodynamic properties of HgTe/s,l. *High Temp. Sci.* 14/1981/181
- SUGLOBOVA, I.G., FEDOROV, V.L., CHIRKST, D.É. (A.A. Zhdanov State Univ., Leningrad, B-164 USSR): Thermochemical investigation of alkali metal fluorouranates IV. *Inorg. Mater. transl. Izv. Akad. Nauk SSSR Neorg. Mater.* 17/1981/482
- SUKHVALO, S.V., SHIFRIN, A.B., BORODINOVA, R.V., DEMCHENKO, A.I. (Acad. Sci. BeSSR, Inst. Solid State and Semicond. Phys., Minsk, BeSSR): Changes in the properties of Mg-Mn-Co ferrites during heat and magnetic-heat treatment. *Inorg. Mater. transl. Izv. Akad. Nauk SSSR Neorg. Mater.* 17/1981/340
- SVOBODA, V., CHARVÁTOVÁ, V., MAJER, V., PICK, J. (Prague Inst. Chem. Technol., Dept. Phys. Chem., CS-16628 Prague, 6 Czechoslovakia): Determination of heats of vaporization and some other thermodynamic quantities for four alkylcycloparaffins. *Collect.* 46/1981/2983
- SYAMAPRASAD, U., VALLABHAN, C.P.G. (Univ. Cochin, Dept. Phys., Cochin, 682022 India): Low temperature electrical conductivity, dielectric constant, and phase transitions in $(NH_4)_2SO_4$ and $(Nd_4)_2SO_4$. *Solid State Commun.* 41/1982/169
- SURADI, S., EL SAIAD, N., PILCHER, G., SKINNER, H.A. (Univ. Manchester, Dept. Chem., Manchester M13 9PL Lancashire, England): Enthalpies of combustion of the three hydroxy-pyridines and the four hydroxy-2-methylpyridines. *J. Chem. Thermodyn.* 14/1982/45
- SVOBODA, V., CHARVÁTOVÁ, V., MAJER, V., HYNEK, V. (Prague Inst. Chem. Technol., Dept. Phys. Chem., CS-16628 Prague, 6 Czechoslovakia): Determination of heats of vaporization and some other thermodynamic properties for four substituted hydrocarbons. *Collection* 47/1982/543

- TANAKA, H. (Hiroshima Univ., Fac. Sch. Educ., Chem. Lab., Hiroshima, 734 Japan): Kinetics of the thermal dehydration stages of $\text{BaCl}_2 \cdot 2\text{H}_2\text{O}$ by means of TG at constant temperatures. *Thermochim. Acta* 52/1982/1
- TANAKA, H. (Hiroshima Univ., Fac. Sch. Educ., Chem. Lab., Hiroshima, 734 Japan): Kinetics and mechanism of thermal dehydration of lithium sulfate monohydrate by means of TG and DSC. *Thermochim. Acta* 52/1982/195
- TANAKA, H., MAEDA, K. (Hiroshima Univ., Fac. Sch. Educ., Chem. Lab., Hiroshima, 734 Japan): Kinetics and mechanism of the thermal dehydration stages of $\text{BaCl}_2 \cdot 2\text{H}_2\text{O}$ by means of simultaneous TG-DSC. *Thermochim. Acta* 51/1981/97
- TANAKA, H., OHSHIMA, S., NEGITA, H. (Hiroshima Univ., Fac. Sch. Educ. Chem. Lab., Hiroshima, 734 Japan): The problem of discerning kinetic models for solid decompositions from isothermal analyses. *Thermochim. Acta* 53/1982/387
- TANAKA, R. (Osaka City Univ., Fac. Sci., Dept. Chem., Sumiyoshi-ku, Osaka 558 Japan): Determination of excess heat capacities of (benzene+tetrachloromethane and + cyclohexane) between 293.15 and 303.15K by use of a Picker flow calorimeter. *J. Chem. Thermodyn.* 14/1982/259
- TANIEWSKA-OSIŃSKA, S., PAŁECZ, B. (Univ. Łódź, Dept. Phys. Chem., PL-90131 Łódź, Poland): Enthalpies of solution of hydroxyurea in water in the temperature range 293.15 to 323.15K. *J. Chem. Thermodyn.* 14/1982/11
- TANDON, M., BARTH WAL, J.P., BHALLA, T.N., BHARGAVA, K.P. (c/o, J.P. Barthwal, King Georges Med. Coll., Dept. Hlth. and Safety, Jawamar Lal Nehru Lab. Molec. Biol., Lucknow, 226003 Uttar Pradesh, India): Synthesis and antiinflammatory activity of some new 3/ortho-substituted phenyl/4 substituted-phenyl-5-alkyl alkenyl-mercaptop-1H-1,2,4-triazoles. *Indian J. Chem. B* 20/1981/1017
- TAVADZE, F.N., TSOMAYA, K.P., GABUNIA, D.L., TSAGAREISHVILI, O.A., SVANIDZE, L.K., BADZAGUA, T.S. (Acad. Sci. GeSSR, Inst. Met., Tbilisi, GeSSR): Thermal analysis of dispersed boron powders. *J. Less-Common Metals* 82/1981/367
- TERESHKOVA, S.G. (Acad. Sci. BeSSR, Inst. Gen. and Inorgan. Chem., Minsk, BeSSR): Heat capacity and its temperature dependence for phosphorus compounds of the same type structures. *Zh. Fiz. Khim.* 56/1982/178 (in Russian)
- TERLIKOVSKY, E.V., SIMUROV, V.V., KRUGLITSKY, N.N. (A.V. Dumansky Colloid Chem. and Water Chem. Inst., Moscow, USSR): Heat resistance of filled polyorgano-siloxanes. *Ukr. Khim. Zh.* 47/1981/1243 (in Russian)
- TER-MINASSIAN-SARAGA, L., MADELMONT, G. (Univ. Paris, 05 UER Biomed., CNRS, Equipe Rech. Phys. Chim. Surface et Membranes, F-75270 Paris 06, France): Differential scanning calorimetry studies of hydration forces with phospholipid multilamellar systems. *J. Colloid Interface Sci.* 85/1982/375
- THOMSON, T.A., BORMAN, C.H., VERMEULEN, J.D., ROSEN, R. (CIBA Geigy Corp., Dept. Res. Div. Pharmaceut., Ardsley, N.Y., 10502 USA): Assay of the anti-inflammatory compound CGS 5391B in blood plasma by automated HPLC. *J. Liquid Chromatogr.* 4/1981/2015
- TIBBALLS, J.E., NELMES, R.S., MCINTYRE, G.J. (Univ. Edinburgh, Dept. Phys., Edinburgh, EH9 EJZ Midlothian, Scotland): The crystal structure of tetragonol KH_2PO_4 and KD_2PO_4 as a function of temperature and pressure. *J. Phys. C* 15/1982/37
- TOPOR, N.D., TSOI, G.K. (M.V. Lomonosov State Univ., Moscow, 117234 USSR): Microcalorimetric studies of the kinetics of mineral dissolution in melts at high temperatures. *Dokl. Akad. Nauk SSSR* 260/1981/1241 (in Russian)
- TÓTH, A., BERTÓTI, I., SZÉKELY, T. (Hungarian Acad. Sci., Inorgan. Chem. Res. Lab., P.O.B. 132, H-1502 Budapest, Hungary): Kinetics of γ -alumina chlorination by carbon monoxide and chlorine. *Thermochim. Acta* 52/1982/211

- TSANG, W., WALKER, J.A., BRAUN, W. (NBS Div. Chem. Kinet., Washington, D.C., 20234 USA): Thermal unsensitized laser, and laser SiF₄ sensitized decomposition of 1,2-dichloropropane. *J. Phys. Chem.* 86/1982/719
- TU, K.N. (IBM Corp., Thomas J. Watson Res. Ctr., Yorktown Hts., N.Y., 10598 USA): Thermal stability of Pd₂Si and PdSi in thin film and in bulk diffusion couples. *J. Appl. Phys.* 53/1982/428
- TURCHANIN, A.G., BABENKO, S.A., POLISHCHUK, V.S. (Kramatorsk Ind. Inst., Kramatorsk, UkSSR): Enthalpy and heat capacity of cubic titanium carbonitrides in the 298K to 1500-K range. *Zh. Fiz. Khim.* 56/1982/41 (in Russian)
- UCHYTILOVÁ, V., SVOBODA, V., PICK, J. (Inst. Chem. Technol., Dept. Phys. Chem., CS-16628 Prague, Czechoslovakia): Differential latent heat of mixture. *Chem. Listy* 76/1982/1
- UDUPA, M.R. (Indian Inst. Technol., Dept. Chem., Madras, 600036 India): Thermal decomposition of vanadium oxysalts. *Thermochim. Acta* 51/1981/169
- UDUPA, M.R. (Indian Inst. Technol., Dept. Chem., Madras, 600036 India): Thermal decomposition of guanidinium nitrate. *Thermochim. Acta* 53/1982/383
- UDUPA, M.R. (Indian Inst. Technol., Dept. Chem., Madras, 600036 India): Thermal decomposition of uranyl glycolate. *Thermochim. Acta* 53/1982/225
- UDUPA, M.R. (Indian Inst. Technol., Dept. Chem., Madras, 600036 India): Thermal decomposition of basic manganous chromate. *Thermochim. Acta* 52/1982/345
- UDUPA, M.R. (Indian Inst. Technol., Dept. Chem., Madras, 600036 India): Thermal behaviour of cetyl trimethylammonium perchlorate. *Thermochim. Acta* 52/1982/363
- UDUPA, M.R. (Indian Inst. Technol., Dept. Chem., Madras, 600036 India): Thermal decomposition of onium type oxalates. *Thermochim. Acta* 52/1982/367
- USOLTSEVA, N.V., MINEEV, L.I., BARDUKOV, L.N. (Ivanovo State Univ., Liquid Crystals Problem Lab., Ivanovo, USSR): Thermochemical and X-ray diffraction studies of oxidized lecithin. *Izv. Vyssh. Uch. Zav.* 124/1981/1351 (in Russian)
- VALIGI, M., GAZZOLI, D. (Univ. Rome, Ist. Chim. Gen. ed Inorgan. CNR, Ctr. Studio Struttura ed Attivita Catalit, Sistemi Ossidi, I-00100 Rome, Italy): The influence of surface reactions on analytical thermogravimetric results. *Thermochim. Acta* 53/1982/115
- VANCHINSYAN, Y.Y., DIBRIVNYI, V.N., DONCHAK, V.A., CHUCHMAREV, S. K. (Lvov Polytech. Inst., Dept. Phys. and Colloid Chem., Lvov, UkSSR): Standard enthalpies combustion and formation of some pyromellitic acid peroxy esters. *Izv. Vyssh. Uch. Zav.* 24/1981/1573 (in Russian)
- VANDERZEE, C.E. (Univ. Nebraska, Dept. Chem., Lincoln, Nebr., 68588 USA): Thermodynamic relations and equilibria in /Na₂CO₃+NaHCO₃+H₂O): standard Gibbs energies of formation and other properties of sodium hydrogen carbonate, sodium carbonate heptahydrate, sodium carbonate decahydrate trona: (Na₂CO₃.NaHCO₃.2H₂O), and Wegscheider's salt: /Na₂CO₃.3NaHCO₃/. *J. Chem. Thermodyn.* 14/1982/219
- VAN UITERT, L.G. (Bell Tel. Labs. Inc., Murray Hill, N.J., 07974 USA): Relations for hydration enthalpies of metalionhydrates and stability constants of metal-dibenzoylmethane chelate complexes. *Mater. Res. Bull.* 17/1982/223
- VARADARAJAN, K., BAYER, R.F. (Univ. Illinois Med. Ctr., Dept. Physiol. and Biophys., Chicago, Ill., 60680 USA): Effects of thermal history, crystallinity, and solvent on the transitions and relaxations in poly (bisphenol-A carbonate). *J. Polym. Sci. Polym. Phys. Ed.* 20/1982/141
- VARMA, I.K., FOHLEN, G.M., PARKER, J.A. (Indian Inst. Technol., Ctr. Mat. Sci.

- and Technol., Hauz Khas, New Delhi, 110016 India): Synthesis and thermal characteristics of bisimides.1. *J. Polym. Sci. Polym. Chem. Ed.* 20/1982/283
- VEINBERGA, I.G., CHUKHRAI, E.S., POLTORAK, O.M., AREN, A.K. (M.V. Lomonosov State Univ., Dept. Phys. Chem., Moscow, 117234 USSR): Thermostability of immobilized Kidney acelaze.1. *Vest. Mosk. Univ.* 22/1981/550 (in Russian)
- VERBETSKAYA, T.G., SEIFULLINA, I.I., SKRYLEV, L.D. (I.I. Mechnikov State Univ., Odessa, UKSSR): I.R. spectroscopic and thermogravimetric studies in formate and acetate solvatocomplexes of cobalt difluoride. *Ukr. Khim. Zh.* 48/1982/129 (in Russian)
- VILCU, R., CIOCHINĂ, A., VASU, G.H. (Natl. Inst. Chem., Dept. Phys. Chem. and Electrochem. Technol., Bd. Republ. 13, Bucharest, Romania): Absolute measurement of thermal conductivity of emulsions. *Rev. Roum. Chim.* 26/1981/1355
- VILLAMAÑAN, M.A., CASANOVA, C., ROUX, A. H., GROLIER, J.P.E. (c/o J.P.E. Grolier, Univ. Clermont Ferrand, 2 Thermodynam. and Cinet. Chim. Lab., F-63170 Aubière, France): Excess enthalpies of some binary mixtures. n-alkane + aliphatic ether, n-alkane + hydroxy ether, aliphatic ether + hydroxy ether. *J. Chem. Eng. Data* 27/1982/89
- VILLAMAÑAN, M.A., CASANOVA, C., ROUX-DESGRANGES, G., GROLIER, J.P.E. (Univ. Clermont Ferrand 2, Thermodynam. and Cinet. Lab., F-63170 Aubière, France): Thermochemical behaviour of mixtures of n-alcohol + aliphatic ether heat capacities and volumes at 298.15K. *Thermochim. Acta* 52/1982/279
- VILLAMAÑAN, M.A., CASANOVA, C., ROUX, A. H., GROLIER, J.P.E. (Univ. Clermont Ferrand 2, Thermodynam. and Cinet. Chim. Lab., F-63170 Aubière, France): Calorimetric investigation of the interaction between oxygen and hydroxyl groups in (alcohol + ether) at 298.15 K. *J. Chem. Thermodyn.* 14/1982/251
- VINNIK, R.M. (Acad. Sci. USSR, Inst. Chem. Phys., Moscow, V-71 USSR): Calorimetric study of the reaction of the diglycidyl ether of resorcinol with m-phenylenediamine. *Bull. Acad. Sci. USSR Div. Chem. Sci.* transl. *Izv. Akad. Nauk SSSR Khim.* 30/1981/790
- VISHNEVSKII, G.E., ZADORINA, E.N., ISAKOV, G.N., NESMELOV, V.V. (S. Ordzhonikidze Aviat. Inst., Moscow, USSR): On a new approach to the investigation and prediction of the polymer thermostability under high heating rates. *Dokl. Akad. Nauk SSSR* 261/1981/1119 (in Russian)
- VODYANIK, V.I. (All Union Chem. Ind. Safety Engr. Res. Inst., Explos. Protect Technol. Equipment Lab., Moscow, USSR): New methods of automatic suppression of explosions. *Zh. Vses. Khim. Obshch.* 27/1982/3 (in Russian)
- VOLODKINA, V.L., KOTOV, G.A. (Leningrad Precis Mech. and Opt. Inst., Leningrad, USSR): Thermochemical mechanism of heating thin metallic plates under optimal conditions. *Zh. Tekh. Fiz.* 52/1982/64 (in Russian)
- VOROBEV, A.F., SOLOMATINA, N.A., SOLOVEV, S.N. (D.I. Mendeleev Chem. Technol. Inst., Dept. Gen. and Inorgan. Chem., Moscow, USSR): Enthalpies of solving the sodium iodide in n-propyl and isopropyl alcohols and their mixtures. *Izv. Vyssh. Uch. Zav.* 24/1981/1377 (in Russian)
- WARNE, S.S.J., MORGAN, D.J., MILODOWSKI, A.E. (Univ. Newcastle, Dept. Geol., Newcastle, NSW 2308 Australia): Thermal analysis studies of the dolomite, ferroan dolomite, ankerite series.1. Iron content recognition and determination by variable atmosphere DTA. *Thermochim. Acta* 51/1981/105
- WELLS, C.F. (Univ. Birmingham, Dept. Chem., Birmingham, B15 2TT W. Midlands, England): Ionic solvation in water + co-solvent mixtures.8. Total free energies of transfer with the "neutral" component removed of

- single ions from water into water+acetone. *Thermochim. Acta* 53/1982/67
- WENINGER, H. (Univ. Min. and Met. Leoben, Inst. Mineral and Petrol., A-8700 Leoben, Austria): Microthermometrical investigations, on mineral deposits of the eastern alps. *Tshermaks Miner. Petrogr. Mitt.* 29/1981/127
- WEISS, R.A. (Univ. Connecticut, Inst. Mat. Sci., Storrs, Conn., 06268 USA): The effect of aging on the thermal behavior of sulfonated polystyrene. *J. Polym. Sci. Polym. Phys. Ed.* 20/1982/65
- WIDMER, A.E., FEHLMANN, R., REHWALD, W. (RCA Labs. Ltd., Badenerstr. 569, CH-8048 Zürich, Switzerland): A calibration system for calorimetric mass flow devices. *J. Phys. E* 15/1982/213
- WILHELM, E., INGLESE, A., GROLIER, J.P., KEHIAIAN, H.V. (CNRS, Ctr. Thermodynam. et Microcalorimet., 26 Rue 141e Ria, F-13003 Marseille, France): Thermodynamics of binary mixtures containing cyclic ethers.4. Excess enthalpies of oxalane+ and oxane + alkanolic acid (HCO₂H to C₇H₁₅CO₂H). *J. Chem. Thermodyn.* 14/1982/33
- WOOD, J.A., SEDDON, A.B. (Polytech. Huddersfield, Dept. Chem. Sci., Huddersfield HD1 3DH, England): Thermal studies of heavy metal stearates.1. Chromium stearate-stearic acid mixtures. *Thermochim. Acta* 53/1982/235
- WOOLLEY, W.D. (Fire Res. Stn., Borehamwood, Hertfordshire, WD6 2BL England): Smoke and toxic gas production from burning polymers. *J. Macromol. Sci. A* 17/1982/1
- YAMADA, K. (Osaka Univ., Inst. Laser Engr., Suita, Osaka, 565 Japan): Thermal properties of the system of magnetic bosons. Bose-Einstein ferromagnetism. *Prog. Theor. Phys.* 67/1982/443
- YASHIMA, H., SATOH, T., MORI, H., WATANABE, D., OHTSUKA, T. (Tohoku Univ., Fac. Sci., Dept. Phys., Sendai, Miyagi, 980 Japan): Thermal and magnetic properties and crystal structures of CeGe₂ and CeSi₂. *Solid State Commun.* 41/1982/1
- YPERMAN, J., MULLENS, J., FRANÇOIS, J. P., VAN POUCKE, L.C. (c/o L.C. Van Poucke, Limburgs Univ. Centrum, Dept. SBM, B-3610 Diepenbeek, Belgium): Calorimetric and potentiometric investigation of diethylenetriamine and its N-methyl-substituted derivatives in aqueous solution. *J. Phys. Chem.* 86/1982/298
- YUEN, H.K., MAPPES, G.W., GROTE, W.A. (Monsanto Co., Corp. Res. and Dev. Staff, St. Louis, Mo., 63166 USA): An automated system for simultaneous thermal analysis and mass spectrometry.1. *Thermochim. Acta* 52/1982/143
- ZAHRA, C.Y., ZAHRA, A.M. (CNRS Ctr. Thermodynam. et Microcalorimétrie, 26 Rue 141e RIA, F-13003 Marseille, France): Improved dynamic performance of the Tian-Calvet microcalorimeter. *Compt. Rend. II* 293/1981/747 (in French)
- ZAITLIN, M.P. (Dartmouth Coll., Dept. Phys. and Astron., Hanover, N.H., 03755 USA): Discontinuity in the heat capacity of a normal metal superconductor bilayer. *Solid State Commun.* 41/1982/317
- ZAKS, Y., LO, J., RAUCHER, D., PEARCE, E.M. (c/o E.M. Pearce, Polytech. Inst. New York, 333 Jay St., Brooklyn, N.Y., 11201 USA): Some structure-property relationships in polymer flammability: studies of phenolic-derived polymers. *J. Appl. Polym. Sci.* 27/1982/913
- ZEMAN, S., DIMUN, M. (Dept. Res., Chemko, CS-07222 Stražske, Czechoslovakia): Nitrosation cleavage of hexamethylenetetramine in slightly acid medium from the aspect of the thermochemistry of the nitrosation agent formation. *Thermochim. Acta* 51/1981/325
- ZLOKAZOV, V.B., BABUSHKIN, A.N., KOBEL'EV, L.Y., GORIN, Y.F. (A.M. Gorkii State Univ., Sverdlovsk, USSR): Specific heat of proustite. *Fiz. Tverd. Tela* 24/1982/597 (in Russian)

ZSAKÓ, J., VÁRHELYI, M., VÁRHELYI, CS.,
LIPTAY, GY. (Univ. Babes Bolyai, Fac.
Chem. Technol., R-3400 Cluj, Romania):
Kinetic analysis of thermogravimetric data.

XXI. Derivatographic study on the thermal
decomposition of some $[Co/en/2X_2]Y$ and
 $[Co/en/2X/amine/]Y_2$ type complexes. *Ther-
mochim. Acta* 51/1981/277