

Bibliography Section

- ABDEL-MOEZ, M. S., EL-SHETARY, B. A., EID, M. F., ZIDAN, F. J. (Ain Shams Univ., Fac. Educ., Dept. Chem., Cairo Egypt) Thermodynamic and spectrophotometric studies of acetacetanilidehydrazone complexes of Cu(II), Ni(II) and Co(II) metal ions *Thermochim. Acta* 128/1988/81
- AFONSO, M. D., CZARNOWSKI, J. (Inst. Invest. Fis. Quim. Teor. and Aplicadas, Casilla Correo 16, Sucursel 4, RA-1900, La Plata Buenos Aires) Kinetics and mechanism of the thermal reaction between trifluoromethylhypofluorite and 1,1-dichlorodifluoroethylene *Z. Phys. Chem. Neue Folge* 158/1988/25
- AFONSO, M. D., SCHUMACHER, H. J. (Inst. Invest. Fis. Quim. Teor. and Aplicadas, Casilla Correo 16, Sucursel 4, RA-1900, La Plata Buenos Aires) Kinetics and mechanism of the thermal reaction between perfluorobutene-2 and trifluoro-methylhypofluorite *Z. Phys. Chem. Neue Folge* 158/1988/15
- AGRAWAL, R. K. (Krw Energy Syst. Inc., Dev. Engn. and Anal.Grp., POB 334 Madison PA 15663 USA) Analysis of irreversible complex chemical reactions and some observations on their overall activation energy *Thermochim. Acta* 128/1988/185
- AIHARA, J. (Shizuoka Univ. Fac. Sci. Dept. Chem., Oya, Shizuoka 422 Japan) Thermodynamic stability of polycyclic aromatic hydrocarbons detected in our environment *Bull. Chem. Soc. Jpn.* 61/1988/1451
- ALBANO, E. V., MARTIN, H. O. (Natl. Univ. La Plata, Fac. Ciencias Exados, Inst. Invest. Fisiquim. Teor. Aplicadas, Casillo Correo 16, RA-1900 La Plata Argentina) Temperature-programmed reactions with anomalous diffusion. *J. Phys. Chem.* 92/1988/3594
- ALBERTY, R. A. (MIT, Cambridge, MA 02139 USA) The effect of a catalyst on the thermodynamic properties and partition functions of a group of isomers *J. Chem. Educ.* 65/1988/409
- AL-BIZREH, N., WORMALD, C. J., Yerlett, T. K. (Univ. Bristol, Sch. Chem., Bristol, B98 IT5, Avon England) Enthalpies  $x(\text{CH}_3)_2\text{CO} + (1-x)\text{C}_6\text{H}_{14}$  for  $x = 0.25$ , and  $0.75$  at  $510.2\text{ K}$  up to  $9.11\text{ Mpa}$  *J. Chem. Thermodyn.* 20/1988/797
- ALEKSANDROVA, L. N., GORILOVSKII, M. I., MIKOVA, O. B., Gerasimov, G. N., Abkin, A. D. (LY Karpov Physicochem. Res. Inst., Moscow USSR) Formation of active centres and chains initiation for low-temperature photosensitized polymerization of acrylonitrile in glassy state. *Vysokomol. Soedin. Ser. A SSSR* 30/1988/982
- ALONSO, R., GUERRERO, E., CORRALES, J. A. (Univ. Oviedo, Ets. Ingn. Minos, Dept. Energia, Oviedo, Spain) Excess molar enthalpies of (methylcyclohexane + an alkanol) at  $323.15\text{ K}$ . II. Results for 2-methylpropan-1-ol, butan-2-ol, and 2-methylpropan-2-ol *J. Chem. Thermodyn.* 20/1988/707
- AMBROSE, D., GHIASSEE, N. B. (Univ. London, Univ. Coll. Dept. Chem., 20 Gordon str., London WC14 0AJ England) Vapour pressures, critical temperatures and critical pressures of 2-chloro-1,1,2-trifluoroethyl difluoromethyl ether (enflurance) and of 1-chloro-2,2,2-trifluoroethyl difluoromethyl ether (isoflurance) *J. Chem. Thermodyn.* 20/1988/765
- AMBROSE, D., GHIASSEE, N. B., TUCKERMAN, R. (Univ. London, Univ. Coll. Dept. Chem., 20 Gordon Str., London WC14 0AJ England) Vapour pressure and critical temperature and critical pressure of 4-methylpentan-2-one *J. Chem. Thermodyn.* 20/1988/767

- AMINABHAVI, T. M., MANJESHWAR, L. S., BALUNDGI, R. M., HALLIGUDI, S. B. (Karnatak Univ. Dept. Chem., Dharwar, 580003, Karnataka India) Thermodynamic and optical studies on binary liquid mixtures *Indian J. Chem. Sect. A.* 27/1988/303
- AMIRKHANOV, KH. J., ABDULAGATOV, J. M., ALIBEKOV, B. G., STEPANOV, G. V., BOUY, O. A.) Acad. Sci. USSR, Daghestan Branch, Inst. Phys., Makhachkala 367003 USSR) Equation of state and thermodynamic properties of propan-2-ol *J. Chem. Thermodyn.* 20/1988/513
- ANSARA, I., NABOT, J. P. (Lab. Thermodynam. and Physicochim. Met. YA 29, BD 75, F-38402 St. Martin Dheres France) A thermodynamic assessment of the Au-In system *Thermochim. Acta* 129/1988/89
- ANSARA I., SUNDMAN, B., WILLEMIN, P. (Ecole Natl. Super Electrochim. and Electromet., Grenoble, Thermodyn. and Physilochim. Met. Lab., CNRS, F-38400 ST, Martin Heres France) Thermodynamic modelling of ordered phases in the Ni-Al system *Acta Met.* 36/1988/977
- ARFI, C., RENACCO, E., PAULI, A. M., PASTOR, J. (Fac. Pharm. Marseille, Chim. Analyt. Lab., 27 Bd. J. Moulin, F-13385, Marseille, 5, France) Thermal properties of a urea-formaldehyde insulating foam (French) *J. Thermal Anal.* 34/1988/523
- ARTEMENKO, S. N., VOLKOV, A. F., KRUGLOV, A. N. (Acad. Sci. USSR, Inst. Radioengn. and Electr., Moscow USSR) Charge-density-wave polarization and temperature dependence of the threshold field *Fiz. Nizkich Temp.* 14/1988/356
- AVELIA, M., MARTUŞCELLI, E., VOLGE, M. G. (Cnr., Ist. Ric. Technol. Polimeri and Red., Via Toiano 6, I-80072, Arco Felice Italy) Influence of functional rubbers on the curing process of unsaturated polyester resins *J. Thermal Anal.* 34/1988/441
- BARAŃSKI, A. (Polytechn. Univ. Krakow, Inst. Organ. Chem. and Technol, PL-31155 Krakow Poland) Syntheses and properties of azols and their derivatives. Part XIX. Kinetics and mechanism of thermal condensation of hydroxamic acid chlorides with alkenes *Polish J. Chem.* 61/1987/795
- J. Thermal Anal.* 35, 1989
- BARBI, G. B., MARI, C. M. (Commiss. European Communities, Joint Res. Ctr., Ispra Estab., 1-21020 Ispra Italy) High temperature water electrolysis. The cathodic process at the cermet (Pt+La<sub>0.8</sub>Sr<sub>0.2</sub>CrO<sub>3</sub>) zirconia interface *Solid State Ionics* 26/1988/243
- BARBUCCI, R., CASOLARO, M., NOCENTINI, M., AMADEO, P., MASO, G. D., FINI, A. (Univ. Siena, Dipartimento Chim., Pian Martellini 44, I-53100 Siena Italy) Thermodynamic and spectroscopic studies on the protonation and Cu<sup>2+</sup> complex formation of a synthetic amino diacid: (3-amino-propyl)malonic acid *J. Chem. Soc.* 5/1988/1273
- BARONE, G., CASTRONUOVO, G., DEL-VECCHIO, P., ELIA, V. (Univ. Naples, Dept. Chem., Via Mezzocannone 4, 3-80134 Naples Italy) Interactions between hydrophilic and hydrophobic structure maker solutes. Excess enthalpies of ternary aqueous solutions of D-glucose and alcohols at 25 degrees C. *J. Thermal Anal.* 34/1988/479
- BARONE, G., CASTRONUOVO, G., DEL-VECCHIO, P., ELIA, V. (Univ. Naples, Dept. Chem., Via Mezzocannone 4, 1-80134 Naples Italy) Interactions between aminoacids and alcohols in water at 25 degrees C. *J. Thermal Anal.* 34/1988/431
- BARONE, G., CASTRONUOVO, G., DEL-VECCHIO, P., ELIA, V. (Univ. Federico 2, Dept. Chem., Via Mezzocannone 4, 1-80134 Naples Italy) Excess enthalpies of ternary aqueous solutions of amides and ureas at 298.15K *J. Chem. Soc.* 84/1988/1919
- BARRALES-RIENDA, J. M., CHAVES, M. S., ARECHEDERRA, J. M. M., MARTIN, F. F. (CSIC, Inst. Plast. and Caucho, Juan Cierva 3, E 28006 Madrid Spain) Polymer precursors of polyacetylene. Thermal degradation of poly(vinyl esters). Part 1. Molecular weight dependence of the autocatalytic thermal degradation of poly(vinyl acetate) (PVAc) *Polym. Degrad. Stabil.* 21/1988/55
- BARRON, R. M., BARRON, T. H. K., MUMMERY, P. M., SHARKEY, M. (Univ. Bristol, Dept. Theoret. Chem., Cantock Close, Bristol BS8 1TS, Avon England) Thermal expansion and Gruneisen functions of polymer crystal models: 1. Central forces *Can. J. Chem.* 66/1988/718

- BARZAGHI, M., GATTI, C. (Univ. Milan, Dept. Phys. Chem. and Electrochem. CNR, Ctr. Study, Struct. React. Relat., I-20123 Milan Italy) Thermal rearrangements of the homotropylin cation: an MO investigation of some relevant stationary points on the potential energy surface *Theochem. J. Mol. Struct.* 43/1988/431
- BASKIR, J. N., HATTON, T. A., SUTER, U. W. (MIT, Dept. Chem. Engr., Cambridge, MA, 02139, USA) Reply to comment on "thermodynamics of the separation of biomaterials in two phase aqueous polymer systems: "effects of the phase-forming polymers" *Macromolecules* 21/1988/1877
- BATES, F. S., MUTHUKUNAR, M., WIGNALL, G. D., FETTERS, L. J. (AT and AT Bell. Labs. Murray Hill. NJ. 07974 USA) Thermodynamics of isotopic polymer mixtures significance of local structural symmetry *J. Chem. Phys.* 89/1988/535
- BAUGHMAN, R. H., Igbal, Z., Rckhardt, H., OKAMO'IO, Y. (Allied Signal Inc., Corp. Techn., Morristown, N. J. 07960 USA) Structure, properties and thermodynamics of poly(carbon dichalcogenedes) *Macromolecules* 21/1988/1832
- BELNIKEVICH, N. G., SKLIZKOVA, V. P., KUDRYAVTSEV, V. V., KOTON, M. M., FRENKEL, S. Y., GERASCHENKO, Z. B., DONTSOVA, E. P., BLINOV, V. F., ZIMIN, Y. V. (Acad. Sci. USSR. Inst. Macromol, Gpds., Leningrad USSR) Influence of thermodynamic quality of a solvent on viscous properties of concentrated solutions of poly(4,4-oxydiphenylene) pyromellitimide *Vysokomol. Soedin. Ser. A* 30/1988/1109
- BERBENNI, V., FLOR, G., MARINI, A., MAS-SAROTTI, V., RICCARDI, R. (Cnr. Dipartimento Chim. Fiz. Ctr. Studio Termodinam and Elektrochim Sistemi Salini Fusi and Solidi, I-27100 Pavia Italy) On the dehydration enthalpies of some beta-alumines *J. Thermal Anal.* 34/1988/457
- BERTELLI, G., COSTA, L., FENZA, S., MAR-CHETTI, E., CAMINO, G., LOCATELLY, R.) Himont Italia, Ctr. Ric. Giulio Natla, I-44100 Ferrara Italy) Thermal behaviour of bromine-metal fire retardant systems *Polym. Degrad. Stabil.* 20/1988/295
- BHUYAN, K., DASS, N. N. (Dibrugarh Univ. Dept. Chem. Dibrugarh 786004, Assam India) Thermal studies of copolymers of methylmethacrylate and acrylic acid *J. Indian Chem. Soc.* 65/1988/342
- BILLINGTON, A. P., BORELL, P., RICH, N. H. (Univ. Keele, Dept. Chem., Keele STS 5BG, Staffs England) Low-temperature spectroscopic measurements of the "dimol" transitions of single molecular oxygen [ $O_2(a^1\Delta_g)$ ] *J. Chem. Soc. Faraday Trans II.* 84/1988/727
- BIRCH, K. P., WILTON, P. T. (Natl. Phys. Lab., Div. Mech. and Opt. Metrol., Teddington TW11 OLW, MIDDX England) Thermal expansion data for Zerodur from 247K to 373K *Appl. Optics* 27/1988/2813
- BIST, H. D., Nishiya, T., Baba, M., Hanazaki, J. (Indian Inst. Technol. Dept-Phys. Kanpur 208016, Uttar Pradesh India) Temperature-induced spontaneous emission of uranyl nitrate hexahydrate *J. Amer. Chem. Soc.* 110/1988/3043
- BOGER, D. L., WYSOCKI, R. J. (Purdue Univ. Dept. Chem., W Lafayette, IN, 47907, USA) Thermal cycloaddition reactions of  $\pi$ -delocalized singlet vinylcarbenes: three-carbon 1,1-/1,3-dipoles. The thermal three-carbon + two-carbon cycloaddition *J. Org. Chem.* 53/1988/3408
- BOLTON, C., RIEMER, C., SNAPE, C. E., DERBYSHIRE, F. J., TERRER, M. T. (British Coal, Coal Res. Estab., Stoke Orchard, Cheltenham GL 52 4RZ, Glos England) Effect of low-temperature catalytic hydrogenation on pyrolysis and hydrolysis of a bituminous coal. *Fuel* 67/1988/901
- BORSCHEVSKII, A. Y., BOLTALINA, O. V., SOROKIN, I. D., SIDOROV, L. N. (Moscow State Univ. Dept. Chem., Elektronog, Lab. Lenin Hills, Moscow 199890 USSR) Thermochemical quantities for gas-phase iron, uranium and molybdenum fluorides and their negative ions *J. Chem. Thermodyn.* 20/1988/523
- BOTTO, I. L., SCHALAMUK, I. B. A. (Natl. Univ. La Plata, Fac. Ciencias Exactas, Calle 47 and 115, RA-1900 La Plata Argentina) The thermal decomposition of nagyagite *Thermochim Acta* 128/1988/311

- BRANDA, F., MAROTTA, A., BURI, A. (Univ. Naples, Dept. Mat. and Prod. Engr. I-80138 Naples/Italy) A new parameter to evaluate nucleation in-glasses from DTA curves *Thermochim. Acta* 128/1988/39
- BRAUMAN, S. K., PRONTO, J. G. (Lockheed Palo Alto Res Labs., 3251 Hanover st., Palo Alto Ca, 94304 USA) Chemiluminescence studies of the thermooxidation of PEEK *J. Polym. Sci. B* 26/1988/1205
- BREWER, L., EBBINGHAUS, B. B. (Univ. Calif. Berkeley, Laurence Berkeley Lab., Div. Mat. and Chem. Sci., Berkeley, CA 94720 USA) The thermodynamics of the solid oxides of vanadium *Thermochim. Acta* 129/1988/49
- BROWETT, W. B., GASYNA, Z., STILLMAN, M. J. (Univ. Western Ontario, Dept. Chem., London, Ontario Canada N6A 587) Temperature dependence and electronic transition energies in the magnetic circular dichroism spectrum of horseradish peroxidase compound I. *J. Amer. Chem. Soc.* 110/1988/3633
- BROWN, R. Y. C., CALLANAN, Y. R., WEIR, E. D., WESTRUM, E. F. (Royal Mil. Coll. Canada Dept. Chem. and Chem. Engr. Kingston, Ontario Canada K7K 5L5) The thermodynamics of ammonium indates. I. The heat capacity of the ammonium pentachloroindate monohydrate salt  $(\text{NH}_4)_2\text{UnCl}_3 \cdot \text{H}_2\text{O}$  from 8.5 to 349K *J. Chem. Thermodyn.* 20/1988/347
- BRYK, M. T., ULBERG, D. E., REVA, A. A. (Acad. Sci UKSSR, Inst. Colloid Chem. and Water Chem., Kiev, Ukraine USSR) Thermal decomposition of azoinitiators of radical polymerization, absorbed on dispersed oxides *Ukr. Khim. Zh. SSR* 54/1988/645
- BRYNDZIA, L. T., KLEPPA, O. J. (Univ. Chicago, James Franck Inst., Chicago, IL 60637 USA) Standard molar enthalpies of formation of realgar ( $\alpha\text{-As}_2\text{S}_3$ ) and orpiment ( $\text{As}_2\text{S}_3$ ) by high-temperature direct-synthesis calorimetry *J. Chem. Thermodyn.* 20/1988/755
- BUBANEK, J., SOPKOVÁ, A. (Univ. P.J. Safarik, Fac. Sci. Dept. Inorgan. Chem., CS-04154 Kosice, Czechoslovakia) The thermal degradation of clathrate tetracyano complexes and the morphological properties of their intermediates *J. Thermal Anal.* 6/1988/221
- BUCEI, R., CARUNCHIO, V., Magri, A. D., MAGRI, A. L. (Univ. Rome La Sapienza Dipartimento Chim., I-00185 Rome, Italy) An investigation of some homobinuclear and heterobinuclear complexes of copper(II) and nickel(II) with pyridine-2-aldoxime *J. Thermal Anal.* 34/1988/509
- BULANIN, M. O., BURTSEV, A. P., TRETYAKOV, P. Y. (AA Zhdanov State Univ. Phys. Res. Inst., Leningrad B-164 USSR) Temperature variation of the dynamic polarizability of diatomic molecules *Optika* 64/1988/1221
- BURRIEL, R., TO, M., ZAINEL, H., WESTRUM, E. F., CORDFUNKE, E. H. P., MUIS, R. P., WUBENGA, G. (Univ. Zaragoza, Inst. Ciencia Mat. Aragon, Dept. Termol., E-50009, Zaragoza Spain) Thermodynamics of uranium intermetallic compounds. II. Heat capacity of  $\text{UPd}_3$  from 8 to 850K *J. Chem. Thermodyn.* 20/1988/815
- CALADO, J. C. G., GOPAL, P., ZOLLWEG, J. A., THOMSON, W. R. (Cornell Univ., Sch. Chem. Engr., Ithaca, NY, 17853 USA) Heat-of-mixing for the partially miscible system  $\text{N}_2/\text{C}_2\text{H}_6$  *Can. J. Chem.* 66/1988/626
- CALLANAN, J. E., WEIR, R. D., WESTRUM, E. F. (Royal Mil. Coll. Canada, Dept. Chem. and Chem. Engr., Kingston, Ontario Canada K7K 520) The thermodynamics of the divalent metal fluorides. I. Heat capacity of lead tetrafluorostannate,  $\text{PbSnF}_4$  from 10.3 to 352K *Can. J. Chem.* 66/1988/549
- CANOSA-MAS, C., SMITH, S. J., TOBY, S., WAYNE, R. P. (Univ. Oxford, Phys. Chem. Lab., S Parks RD. Oxford OX1 3QZ England) Temperature dependences of the reactions of the nitrate radical with some alkynes and with ethylene *J. Chem. Soc. Faraday Trans II.* 84/1988/263
- CARDILLO, P. (Stazione Sperimentale and Combustibili, San Donato Milanese Italy) Thermal decomposition of isoxazoles *Chim. Ind. Milan* 70/1988/90
- CARR, N. J., GALWEY, A. K. (Queens. Univ. Belfast Dept. Pure and Appl. Chem., Belfast BT9 5AG Antrim North Ireland) The thermal decomposition reactions of copper(II) melete and of copper(II) fumarate *J. Chem. Soc. Faraday Trans. I.* 84/1988/1357

- CARSTENS, P. A. B., KNOETZE, T. P., VAN VUUREN, C. P. J. (Atom Energy Corp. S. Africa Ltd., Dept. Chem., Pob 582, Pretoria 0001 South Africa) Activation energy studies on complexes of uranyl fluoride with amidic ligands *Thermochim. Acta* 128/1988/237
- CASALE, A., DE ROBERTIS, A., DE STEFANO, C. (Univ. Messina, Ist. Chim. Anal., Salita Sperone 31, I-98166 Messina S Agata Italy) Complexing ability of pesticides and related compounds. Thermodynamic parameters for the formation of  $H^+$ ,  $Na^+$  and  $Ca^{2+}$  complexes with 2,4-dichlorophenoxyacetate in aqueous solution at different temperatures and ionic strengths *Thermochim. Acta* 128/1988/261
- CASES, F., Mora, F., PÉREZ, J. M. (Univ. Alicante, Fac. Ciencias, Dept. Quim. Fis., Alicante Spain) Thermolysis of 3-chloro-3-methyldiazirine. A semiempirical approach *Theochem. J. Mol. Struct.* 43/1988/445
- CENTORE, R., ROSA, C., GUERRA, G., PETRACCONI, V., CORRADINI, P., VILLANI, V. (Univ. Naples, Dipartimento Chim., Via Mezzocanone 4, I-80134 Naples Italy) Melting and solid-phase transitions of isothermally crystallized copolymers of tetrafluoromethylene and hexafluoropolyethylene *Eur. Polym. J.* 24/1988/445
- CERDÁ, V., OUS, M. T., ALVAREZ-OSÓNO, A., LUMBIARRES, X., FORTEZA, R., RAMIS, G. (Univ. Balearic Isl., Dept. Chem. E-07071 Palma De Mallorca Spain) Valter, a computing program for automatic thermometric titrations *Thermochim. Acta* 128/1988/9
- CHANG, O. K., Rock, P. A. (Univ. Calif Davis, Dept. Chem. Davis, CA 95616 USA) Thermodynamics of hydrogen-isotope-exchange reactions. 5. Determination of K and  $\Delta S^\circ$  for the reaction  $OD^-(aq) + HS^-(aq) = OH^-(aq) + DS^-(aq)$  *J. Phys. Chem.* 92/1988/3411
- CHILDS, R. F., GEORGE, B. E. (McMaster Univ. Dept. Chem. Hamilton, Ontario Canada L8S 4M1) Thermal isomerization of the photoisomerization of some protonated phenols *Can. J. Chem.* 66/1988/1350
- CHIMISHKYAN, A. L., GRABARNIK, M. S., ORLOV, S. I., KURKOVSKAYA, L. N., PERLOV, A. V. (DI Mendeleev Chem. Technol. Inst., Moscow USSR) Thermodynamics of association of substituted pyridine-1-oxides with 1-naphthol in methylene chloride *Zh. Org. Khim. SSSR* 24/1988/1094
- CHIZHIK, S. P., GRIGORYEVA, L. K., KUKLIN, R. N., KUZMIN, V. N. (All Union Current Sources Res. Design and Construct. Technol. Inst. Moscow USSR) Thermodynamic-properties of thin films near the first-order phase transition point. *Fiz. Tverd. Tela* 30/1988/1132
- CHOPPIN, G. R., LIU, Q., RIZKALLA, E. N. (Florida State Univ. Dept. Chem., Tallahassee, Fl. 32306 USA) Thermodynamics of complexation of lanthanides by methoxybenzoates *Inorg. Chim. Acta* 145/1988/309
- CHRISTENSEN, J. J., CORDRAY, D. R., OSCARSON, Y. L., IZATTA, R. M. (Brigham Young Univ. Dept. Chem. Engr., Provo UT 84602 USA) The excess enthalpies of four (carbon dioxide + an alkanol) mixtures from 308.15 to 573.15K at 7.50 to 12.50 MPa *J. Chem. Thermodyn.* 20/1988/867
- CHUCHANI, G., ROTINOV, A. (Inst. Venezolano, Invest. Cient., Ctr. Quim., Apartado 21827, Caracas, 1020 A Venezuela) The pyrolysis kinetics and mechanism of ortho-hydroxy-2-phenylethyl chloride *Bull. Soc. Chim. France* 2/1988/322
- CLARSON, S. Y., MARK, Y. E., DOGSON, K. (Univ. Cincinnati, Dept. Chem., Cincinnati, OH 45221 USA) Effect of network chain length distribution and in situ precipitated silica on the low-temperature behaviour of poly(dimethylsiloxane) model networks *Polymer* 29/1988/208
- CLAUDY, P., COMMERCON, J. C., LÉTOFFÉ, J. M. (Inst. Natl. Sci. Appl. Lyon, Thermochim. Minerale Lab., UA 116 BAT 401, 20 Ave A Einstein, F-69621 Villeurbanne France) Quasi-static study of the glass transition of glycerol by DSC *Thermochim. Acta* 128/1988/251
- COLOMINA, M., JIMÉNEZ, P., PÉREZ-OSORIO, R., ROUX, M. V., RURRIÓN, C. (CSIC, Inst. Phys. Chem., Rocasolano, Serrano 119, E-28006, Madrid Spain) Thermochemical properties of benzoic acid derivatives. XVI. Vapour pressures and enthalpies of sublimation and formation of the three tetramethylbenzoic acids and of pentamethylbenzoic acid *J. Chem. Thermodyn.* 20/1988/575

- COONEY, A., MORCOM, K. W. (Univ. Leicester, Dept. Chem., Leicester LE1 7RH England) Thermodynamic behaviour of mixtures containing fluoroalcohols. I. (Water + 2,2,2-trifluoroethanol) *J. Chem. Thermodyn.* 20/1988/735
- CORDRAY, D. R., CHRISTENSEN, J. J., IZATT, R. M., OSCARSON, J. L. (Brigham Young Univ. Dept. Chem. Engr. Provo, UT 84602 USA) The excess enthalpies of (carbon dioxide + toluene) at 390.15, 413.15, 470.15 and 508.15 K from 7.60 to 17.50 MPa *J. Chem. Thermodyn.* 20/1988/877
- CORDRAY, D. R., IZATT, R. M., CHRISTENSEN, J. J., OSCARSON, J. L. (Brigham Young Univ. Dept. Chem. Engr., Provo, UT 84602 USA) The excess enthalpies of (carbon dioxide + ethanol) at 308.15, 325.15, 373.15, 413.15 and 473.15 K from 5.00 to 14.91 MPa *J. Chem. Thermodyn.* 20/1988/655
- CORDFUNKÉ, E. H. P., KONINGS, R. J. M. (Netherlands Energy Res. Fdn., Petten Netherlands) The enthalpy of formation of RuO<sub>2</sub> *Thermochim. Acta* 129/1988/63
- CORDFUNKE, E. H. P., KONINGS, R. J. M., WESTRUM, E. F. (Netherlands Energy Res. FDN ECN† Petten Netherlands) The thermodynamic properties of cesium metaborate CsBO<sub>2</sub> from 5 to 1000 K *Thermochim. Acta* 128/1988/31
- CORDFUNKE, E. H. P., QUWELTJES, W., PRINS, G. (Netherlands Energy Res. Fdn., Petten Netherlands) Standard enthalpies of formation of tellurium compound. III. Cs<sub>2</sub>TeO<sub>3</sub>, Cs<sub>2</sub>Te<sub>2</sub>O<sub>5</sub>, Cs<sub>2</sub>Te<sub>4</sub>O<sub>9</sub>, and Cs<sub>2</sub>TeO<sub>4</sub> *J. Chem. Thermodyn.* 20/1988/569
- COSTA, L., CAMINO, G. (Univ. Turin, Ist. Chim. Macromolec. VB. Bidone 36, I-10125, Turin Italy) Thermal behaviour of melamine *J. Thermal Anal.* 34/1988/423
- COSTA, G. A., FRANCESCHI, E. A. (Univ. Turin, Ist. Chim. Macromolec., V. G. Bidone 36, I-10125 Turin Italy) Sections of ternary diagrams rare earths indium tin of R/In<sub>1-x</sub>Sn<sub>x</sub>/3 composition *J. Thermal Anal.* 34/1988/519
- COURCHINOUX, R., CHANH, N. B., HAGET, Y., TAULER, E., CUEVAS-DIARTE, M. A. (Univ. Bordeaux 1, Cristallog and Phys. Cristalline Lab., UA 144, F-33405 Talence France) Use of the "shape factors" as an empirical method to determine the actual characteristic temperatures of binary phase diagrams by differential scanning calorimetry *Thermochim. Acta* 128/1988/45
- COWIE, J. M. G., WU, H. H. (Univ. Stirling, Dept. Chem., Stirling FK9 4 LA Scotland) Thermotropic liquid crystalline mainchain polyesters containing cyclooctyl units: 5. Effect of the cyclooctyl ring as a semi-flexible spacer *Polymer* 25/1988/1128
- COWIE, J. M. G., WU, H. H. (Univ. Sterling, Dept. Chem., Stirling FK9 4 LA Scotland) Thermotropic liquid crystalline mainchain polyesters containing cyclooctyl units: 5. Effect of the cyclooctyl ring as a semi-flexible spacer *Polymer* 25/1988/1128
- COWIE, J. M. G., WU, H. H. (Univ. Sterling, Dept. Chem., Stirling FK9 4LA Scotland) Thermotropic liquid crystalline mainchain polyesters containing cyclooctyl units. Part 2. Effect of polar substituents *Polymer* 29/1988/218
- CUADRADO, T. R., BORRAJO, J., WILLIAMS, R. J. J. (Univ. Mar Plata, Inst. Mat. Sci and Technol. YB Justo 4302, RA 7600 Mar Del Plata Argentina) Analysis of the thermodynamic compatibility of interpenetrating networks during their synthesis *J. Polym. Sci.* 26/1988/1735
- DANIL DE NAMOR, A. F., BERROA DE PONCE, H. (Univ. Edinburgh, Dept. Phys. Mayfield RD, Edinburgh Eh9 3JZ, Midlothian Scotland) Thermodynamic parameters for the transfer of electrolytes and ions from water to benzonitrile *J. Chem. Soc. Faraday Trans I.* 84/1988/1671
- DEBBAG, F., BASTIDE, G., ROUZEYRE, M. (Univ. Montpellier 2, Cnrs. Etud. Semicond. Grp., UA 357 PL E Bataillon, F-34060, Montpellier France) Thermal ionization and photoionisation properties of deep traps in n type CdTe *Solid State Commun.* 67/1988/1
- DEMIN, S. N., ZAITSEV, A. A. (Ivanovo Chem. Technol. Inst. Ivanovo USSR) Computation of thermodynamic molecule function with arbitrary number of asymmetric tops with the Bogolyobov equality *Zh. Fis. Khim. SSSR* 62/1988/1227
- J. Thermal Anal.* 35, 1989

- DE MARCO, D. (Cnr., Ist. Chim. Macromolec, Via E Bassini 15, I-20133, Milan Italy) Thermal analysis of some cyano compounds. Part II. Thermal behaviour of mixed  $\text{KLnFe/n}_6\text{H}_2\text{O/Ln} = \text{La(III), Ce(III), Nd(III)}$  *Thermochim. Acta* 128/1988/127
- DEMIDOV, V. N., KUKUSHKIN, Y. N., VENEDEEVA, L. N. (Lensovet Technol. Inst. Leningrad USSR) Thermolysis of chloro-platinates(II) and chloroplatinates(IV) of  $\text{N,N}'$ -dialkyl-dipyridilium,  $\text{N-alkyl-2,2}'$ -dipyridilium and  $\text{4,4}'$ -dipyridilium and 1.10-phenanthroline *Zh. Obshch. Khim. SSSR* 58/1988/741
- DEMIDOV, V. N., KUKUSHKIN, Y. N., VENEDEEVA, L. N., BELYAEV, A. N. (Lensovet Technol. Inst., Leningrad USSR) Thermal dehydration of  $\text{N,N}'$ -dimethylbenzimidazolium tetrachloroplatinate(II) and hexachloroplatinate (IV) *Zh. Obshch. Khim. SSSR* 58/1988/758
- DERGACHEVA, M. B. KHOBDAFERGENOVA, G. R. (Acad. Sci. KASSR, Inst. Organ. Catalysis and Elektr. Chem., Alma Ata 480021, Kazahstan USSR) Thermodynamic properties of liquid alloys of the sodium-cesium-mercury system *Zh. Fiz. Khim. SSSR* 62/1988/594
- DERGACHEVA, M. B., PANOVA, N. L. (Acad. Sci. KASSR, Inst. Organ. Catalysis and Electrochem., Alma Ata, 480021 Kazahstan USSR) Thermodynamic properties of diluted sodium solutions in cesium-mercury liquid alloys *Zh. Fiz. Khim. SSSR* 62/1988/1194
- DETUSHEVA, L. G., YURCHENKO, E. N. (Acad. Sci. USSR, Inst. Catalysis, Novosibirsk USSR) Thermodynamic characteristics of the decay of phosphorusmolybdovanadic heteropoly-acid in acidic aqueous solutions *Koord. Khim.* 14/1988/471
- DEURI, A. S., BHOWMICK, A. K., GHOSH, R., JOHN, B., SRIRAM, T., De, S. K. (Indian Inst. Technol. Ctr. Rubber Technol., Kharapur 721302 W Bengal India) Thermal and ablative properties of rocket insulator compound based on EPDM *Polym. Degrad. Stabil.* 21/1988/21
- DI BERNARDO, P., TOMAT, G., ZANONATO, P., PORTANOVA, R., TOLAZZI, M. (Univ. Udine, Ist. Chim. Viale Ungheria 43, I-33100 Udine Italy) Thermodynamics of vanadyl(IV)-carboxylate complex formation in aqueous solution *Inorg. Chim. Acta* 145/1988/285
- DIETER, T., GAFNEY, H. D. (Cuny Queens Coll., Dept. Chem., Flushing NY 11367 USA) Thermal and photochemical reactions of  $\text{Ru}_3(\text{CO})_{12}$  adsorbed onto porous vycor glass *Inorg. Chem.* 27/1988/1730
- DIOT, M., GERMAIN, P., EL MAIL, R. (Inst. Natl. Sci. Appl. Lyon, Thermochim. Minerale Lab., UA 116, 20 Ave A Einstein, F-69621 Villeurbanne France) Thermal properties of  $\text{TiTeF}_5$  to 300K. Solid-to-solid transition *J. Chem. Thermodyn.* 20/1988/843
- DONG, J., LIN, R., YEN, W. (Zhejiang Univ., Dept. Chem., Hangzhou, Peoples R. China) Heat of vaporization and gaseous molar heat capacities of ethanol and the binary mixture of ethanol and benzene *Can. J. Chem.* 66/1988/783
- DONG, X. Y., AHMED, S., MCGURN, A. R. (Nankai Univ., Dept. Phys., Tianjin, Peoples R. China) Thermodynamics of the one-dimensional diluted classical spin Heisenberg model with single-ion anisotropy *Phys. Rev. B-Condensed Matter* 37/1988/7575
- DRISCOLL, P., FUJIWARA, K., MASUDA, T., FURUKAWA, A., LENZ, R. W. (Kyoto Univ., Med. Polymers and Biomat Res. Ctr., Sakyo Ku, Kyoto 606 Japan) The effect of temperature on optical and viscoelectric properties of a homogeneous thermotropic liquid crystalline polymer *Polym. J.* 20/1988/351
- DYMOND, Y. H., MALHOTRA, R., ISDALE, J. D., GLEN, N. F. (Univ. Glasgow, Dept. Chem., Glasgow, G12 8QQ Scotland) (p,p,T) of n-heptane, toluene and oct-1-ene in the range 298 to 373K and 0.1 to 400 MPa and representation by the Tait equation *J. Chem. Thermodyn.* 20/1988/603
- EASTEAL, A. J., WOOLF, L. A. (Univ. Auckland, Dept. Chem., Auckland New Zealand) (p,  $V_m$ , T, x) measurements for  $(1-x)/\text{H}_2\text{O} + x\text{CH}_3\text{CN}$  in the range 278 to 323K and 0.1 to 28q MPa. I. Experimental results, isothermal compressibilities, isobaric expansivities and partial molar volumes *J. Chem. Thermodyn.* 20/1988/693

- EASTEAL, A. J., WOOLF, L. A. (Univ. Auckland, Dept. Chem., Auckland, New Zealand) (p,  $V_m$ ,  $T, x$ ) measurements for  $(1-x)/H_2O + xCH_3CN$  in the range 278 to 323K and 0.1 to 280 MPa. II. Thermodynamic excess properties *J. Chem. Thermodyn.* 20/1988/701
- EGOROV, V. M., GLUKHENKII, A. G., SERIKOV, S. V. (Dnepropetrovsk Met. Inst., Dnepropetrovsk, Ukraine USSR) Destruction of decomposition of hydrogen peroxide in solutions of vanillic alcohol *Izv. Vyssh. Uch. Zav. Khim. T.* 31/1988/99
- EKETEN, P. J., GENDEREN, A. C. G., JACOBS, M. H. G., OONK, H. A. J. Thermodynamic phase diagram analysis on a personal computer. I. EXTXD results for three binary common-anion earth alkaline metal chloride system *Calphad* 12/1988/303
- EKEREN, P. J., OONK, H. A. J. Thermodynamic phase diagram analysis of HP 15 C calculator. I. Region of demixing *Calphad* 12/1988/301
- ELIYAS, A., PETROV, L. (Bulgarian Acad. Sci., Inst. Kinet. and Catalysis, Str. Acad. G., BU-1113 Sofia Bulgaria) Thermooscillations during the complete oxidation of ethylene oxide over a supported silver catalyst *Appl. Catal.* 30/1988/21
- ELKABULE, A. S., WHITMAN, D. L., MILLER, R. C. (Univ. Wyoming, Laramie, NY, 82071 USA) Excess molar enthalpies of (toluene + n. heptane) and (toluene + methylcyclohexane) using a new variable-volume dilution calorimeter *J. Chem. Thermodyn.* 20/1988/615
- ELNAGAR, H. Y., OKAMURA, W. H. (Univ. Calif. Riverside, Dept. Chem., Riverside CA 92521 USA) Thermal [1,7] sigmatropic hydrogen shift versus electrocyclization of dienyllallene sulfoxides *J. Org. Chem.* 53/1988/3060
- ELYUTIN, A. V., MIKHAILOVA, N. P., EREMENKO, Z. V. Thermochemical studies of decomposition of disposium, lanthanum and neodymium carbonate compounds *Zh. Fiz. Khim. SSSR* 62/1988/1180
- EMMERICH, W. D., KAISERSBERGER, E. (Netzsch Geratebau GmbH., POB 1460, D-8672 Selb, Fed. Rep. Ger.) A new symmetrical microthermobalance *J. Thermal Anal.* 34/1988/543
- ENDOK, A. (Tohoku Univ. Dept. Phys., Sendai, Myagi 980 Japan) Calorimetric study of the monoclinic-orthorhombic phase transition in highly siliceous zeolite ZSM-5 *Zeolites* 8/1988/250
- ENGERLS, S., HAUPT, J., LAUSCH, W. (Th. Carl Schorlemmer Leuna Merseburg, Sekt. Chem., Otto Nuschke Str., DDR-4200 Merseburg, Ger. Dem. Rep.) Temperature-programmed reduction-characterization of reforming catalysts *Z. Phys. Chem. Leipzig* 269/1988/463
- ERNST, G., BRAUNING, G., LAI, J. (Univ. Karlsruhe, Fak. Maschinebau, Inst. Tech. Thermodyn., Kaiser str. 12., D-7500 Karlsruhe 1 Fed. Rep. Ger.) Calorimetric determination between the international practical temperature scale 1968 and the thermodynamic temperature scale *Can. J. Chem.* 66/1988/999
- FERRO, R., BORZONE, G., CACCIAMANI, G. (Univ. Genoa, Inst. Hyg. and Med. Microbiol., Viale Benedetto KU 3, I-16132 Genoa Italy) On the thermochemistry of the rare earth antimoniides. The Dy-Sb system *Thermochem. Acta* 129/1988/99
- FOMIN, V. A., OVCHINNIKOVA, Y. J., NOZRINA, F. D. Study of the thermolysis of tertbutylperoxyalkyl (aryl)-hydroxyalkylenoxy-alkylcarbonates in the presence of inhibitors of phenol series *Zh. Obshch. Khim. SSSR* 58/1988/1384
- FRAENKEL, D., LEVY, A. (Weizman Inst. Sci., Dept. Mat. Res., IL-76100 Rehovot Izrael) Analysis of temperature programmed diffusion chromatograms obtained with zeolite-gas systems *J. Chem. Soc.* 84/1988/1817
- FRANCESCHI, E. A., COSTA, G. A. (Univ. Genoa, Ist. Chim. Fis., I-16126 Genoa Italy) The phase diagram of the Ce-Su system up to 50 at - percent - Sn *J. Thermal Anal.* 34/1988/451
- FRANCISKO, J. S., WILLIAMS, J. H. (Wayne State Univ. Dept. Chem., Detroit, MI 48202 USA) The thermochemistry of polyoxides and polyoxy radicals *Chem. Kinet.* 20/1988/455
- FROST, R. S. (1045 Catalina Or., Apt. 13. Livermore, Ca 94550 USA) Statistical thermody-



- namics of mixtures of rodlike particles. Surface tension and the most probable distribution *Macromolecules* 21/1988/1854
- FUKUCHI, Y., KUBOKI, T., TAKAHASHI, T., NOGUCHI, M., SABURI, M., UCHIDA, Y. (Univ. Tokyo, Fac. Engn., Dept. Ind. Chem., Tokyo 113 Japan) Thermo-initiated anionic polymerization of epoxides using the titanium tetraisopropoxide and protected aryl alcohol system *J. Polym. Sci. A* 26/1988/269
- FUSHIMI, M., SUZUKI, M., UEHERA, A. (Kanazawa Univ., Fac. Sci., Dept. Chem., Kanazawa, Ishikawa 920 Japan) Thermal cis-trans isomerization of dihalogenobis [trialkyl(or aryl)phosphine] platinum(II) in the solid state *Bull. Chem. Soc. Jpn.* 61/1988/1809
- FYNES, G., HAROD, A. A., HODGES, N. J., STOKES, B. J., LADNER, W. R. (British Coal, Coal Res. Estab., Cheltenham, GL52 4RZ, Glos England) The thermal emission of chlorine-containing compounds from coal following brine and chlorine gas treatments *Fuel* 67/1988/822
- GABRIEL, A. J., CHATILLON, C. B., ANSARA, I. (Ecole Natl. Super Electrochim. and Electromet. Grenoble, Cnrs, UA 29, Thermodynam and Thermochem. Met. Lab., St. Martin Dheres France) Thermodynamical analysis of the CH<sub>4</sub>/H<sub>2</sub> and CO/CO<sub>2</sub> carburizing mixtures in presence of Al<sub>2</sub>O<sub>3</sub> and SiO<sub>2</sub> furnaces: the influence of O<sub>2</sub> and H<sub>2</sub>O impurities *High. Temp. Sci.* 23/1987/187
- GALWEY, A. K., MOHAMED, M. A. A., RAJAM, S., BROWN, M. E. (Queens Univ. Belfast, Dept. Chem. Belfast B59 5AG, Antrim North Ireland) Thermal decomposition of copper(II). Squarate *J. Chem. Soc. Faraday Trans I.* 84/1988/1349
- GANGULI, A. K., GANAPATHI, L., GOPALAKRISHNAN, J., RAO, C. N. R. (Indian Inst. Sci., Solid State and Struct. Chem. Unit, Bangalore, 560012, Karnataka India) Low-temperature synthesis of novel layered alkali metal-MoO<sub>3</sub> bronzes and hexagonal bronzes of the type K<sub>y</sub>W<sub>1-x</sub>Ho<sub>x</sub>O<sub>3</sub> *J. Solid State Chem.* 74/1988/228
- GARCIA, I., CABOS, J. C., GONZÁLEZ, J. A., CASANOVA, C. (Univ. Valladolid, Dept. Fis. Aplicada 2., E 47071 Valladolid Spain) Thermodynamics of binary mixtures of alkanone-chloroalkane. I. Heat of mixing of n-alkanone-1-chlorohexadecane mixtures at 298.15 K *Thermochim. Acta* 128/1988/209
- GARDNER, P. J., PANG, P. (Royal Holloway and Bedford New Coll., Egham Hill, Egham TW20 OEX, Surrey England) Thermodynamics of the zinc sulfide transformation sphalerite → Wurtzite by modified entrainment *J. Chem. Soc.* 84/1988/1879
- GERASIMENKO, V. A., VOSKOBOINIKOV, V. V. (FE Dzerzhinskii Chem. Technol., Inst. Dnepropetrovsk, Ukraine USSR) Thermal stability and gas chromatographic retention of substitute alkylarylcarbamates *J. Anal. Chem.* 42/1987/1627
- GHOSH, G., LUKAS, H. L., DELAEY, L. (Catholic Univ. Leuven, Dept. Met. and Mat. Engn. Decrylaan 2, B-3030 Heverle, Belgium) A thermodynamic assesment of the Se-Te system *Calphad* 12/1988/285
- GIORDANO, F., BETTINETTI, G. P., LAMANNA, A., MARINI, A., BERBENNI, V. (Univ. Pavia, Dipartimento Chim. Farmaceut., I-27100, Pavia Italy) Thermal analysis of a drug-polymeric excipient solid system *J. Thermal Anal.* 34/1988/531
- GIRARD, C., BROS, J. P., HOCH, M. (Fac. Pharm. Marseille, Chim. Gen. Lab., 27 blvd Jean Moulin, F-13385 Marseille France) Thermodynamic study of the Al + Ga + In system: comparison between experimental measurements and values calculated with the hoch-arpshofen model *Ber. Bunsen Ges. Phys. Chem.* 92/1988/745
- GIRIDHAR, A., MAHADEVAN, S., SINGH, A. K. (Natl. Aeronaut. Lab., Div. Mat. Sci., Bangalore 560057, Karnataka India) Thermal expansion of some Ge-Se-Te glasses *J. Non-cryst. Solids* 103/1988/73
- GLEASON, J. F., HOWARD, C. J. (NOAA, Aeron Lab., RE A12, 325 Broadway, Boulder Co, 80303 USA) Temperature dependence of the gas-phase reaction HOSO<sub>2</sub> + O<sub>2</sub> → HO<sub>2</sub> + SO<sub>3</sub> *J. Phys. Chem.* 92/1988/3414

- GOMAA, E. A. (Teachers Training Coll., PO 19905 Salalah Oman) Theoretical contribution of solvation of AgBr in some organic solvents at 25°C *Thermochim. Acta* 128/1988/99
- GORDON, B., Krumpf, R. J., Pointer, P. C. (Penn. State Univ. Dept. Mat. Sci. and Engn., Polymer Sci. Sect., Univ. PK., PA 16802 USA) A thermally stable polybenzimidazole polybenzoxazole segmented block copolymer *J. Polym. Sci.* 26/1988/1689
- GRENET, J., DUCLOS, R. (Uer. Sci. and Techn. Rouen, Lecap Lab., BP 118, PL E Blondel, F-76134 Mont St. Aignan France) DSC for progesterone-polyethylene-glycol-6000 comelts (French) *J. Thermal Anal.* 34/1988/559
- GRONVOLD, F., STOLEN, S., WERTRUM, E. F., LABBAN, A. K., UHRENIUS, B. (Univ. Oslo, Dept. Chem., Blindern, N-0315 Oslo 3 Norway) Heat capacity and thermodynamic properties of ditungsten carbide,  $W_2C_{1-x}$ , from 10 to 1000 K *Thermochim. Acta* 129/1988/115
- GRUJICIC, M., HAIDEMENOPOULOS, G. N. (MIT, Dept. Mat. Sci. and Engn., Cambridge MA 02139 USA) A treatment of paraequilibrium thermodynamics in AF1410 steel using the thermocalc software and database *Calphad* 12/1988/219
- GUDRINI, G. G. T., RUSTICI, M. (Univ. Florence, Dept. Chem., Via Gino Capponi 9, I-50121, Florence Italy) Heating rate and the dehydration of alpha.  $NiSO_4 \cdot 6H_2O$  single crystals *J. Thermal Anal.* 34/1988/487
- GUENET, J. M., MCKENNA, G. B. (Univ. Strasbourg 1. Cnrs, Inst. Charles Sadron, 6 Rue Bous-singault, F-67083 Strasbourg France) Thermover-sible gelation of isotactic polystyrene: thermo-dynamics and phase diagrams *Macromolecules* 21/1988/1752
- GUNATILLAKE, P. A., ODIAN, G., TOMALIA, D. A. (Cuny Coll. Staten Isl., Staten Isl., NY 10301 USA) Thermal polymerization of a 2-(car-boxyalkyl)-2-oxazoline *Macromolecules* 21/1988/1556
- GUREVICH, V. M., GORBUNOV, V. E., GAVRICHEV, K. S., KHODAKOVSKII, I. L. (NS Kurakov Gen. and Inorgan. Chem. Inst., Moscow USSR) Low-temperature calorimetry of livingstonite  $HgSb_4S_8$  *Zh. Fis. Khim. SSSR* 62/1988/1378
- GUROV, B. M. (S Ordzhonikidze Polytech. No-vocherkassk USSR) Effect of temperature change along the liquidus line on thermodynamic pro-perties of solution of the silicon-tin system *Zh. Fis. Khim. SSSR* 62/1988/1385
- GUSTAFSON, D. (Royal Inst. Technol., Div. Phys. Met., S-10044 Stockholm 70, Sweden) A thermodynamic evaluation of the Cr-Ni-W system *Calphad* 12/1988/277
- GYÖRYOVÁ, K., SKORSEPA, J. (PJ Safarik Univ. Fac. Sci., Dept. Inorgan. Chem., Moyzesova 11, CS-04154 Kosice Czechoslovakia) Kinetics of thermal decomposition of the tetracyano com-plexes of some transition metals containing the  $[R_3S]^+$  cation. *Thermochim. Acta* 128/1988/1
- HALLPAP, P., BOLKE, M., HARTUNG, H., STADERMAN, D., HEUBLEIN, G. (Friedrich Schiller Univ. Sect. Chem., DDR-6900 Jena, Ger. Dem. Rep.) Thermodynamics of cationic polymerization. 1. Cationic propagation *Acta Polym.* 39/1988/211
- HANSEN, L. D., RANDZIO, S. L., LEWIS, L., LEWIS, E. A., EATOUGH, D. J. (Brigham Young Univ., Dept. Chem., Provo, UT 84602 USA) Heat of the re-forming a coal liquefaction product from distillate fractions *Can. J. Chem.* 66/1988/794
- HARRUNA, J. J., Polk, M. B. (Georgia Inst. Technol. Sch. Text. Engn., Atlanta, GA 30332 USA) Thermotropic copolyesters. II. Synthesis and characterization of copolyesters containing the bicyclo [2.2.2]oct-2-ene mesogenic unit *J. Polym. Sci.* 26/1988/2171
- HAUSLER, K. G., STANFORD, J. L., STEPTO, R. F. T. (Techn. Univ. Carl Schorlemmer, Chem. Sect., DDR-4200, Merseburg Ger. Dem. Rep.) The effect of carbon black filter on the pyrolysis behaviour of vulkanized cis-polybutadiene *J. Anal. Appl. Pyrol.* 13/1988/287
- HEMPFLING, R., SCHULTEN, H. R. (Univ. Beureuth, Inst. Soil Sci, Pøstfach 101251, D-8580

- Beureuth, Fed. Rep. Ger.) Characterization and dynamics of organic compounds in forest humus studied by pyrolysis-gas chromatography/electron impact mass spectrometry and pyrolysis-(high resolution) field ionization mass spectrometry *J. Anal. Appl. Pyrol.* 13/1988/319
- HIEN, N. T. M., SERPINSKII, V. V. (Acad. Sci., USSR, Inst. Phys. Chem. Moscow, V-71 USSR) Temperature dependence of the hysteresis loop in capillary condensation *Bull. Acad. Sci. USSR* 36/1987/2246
- HIKMET, R. M., CALLISTER, S., KELLER, A. (Univ. Bristol, HH Hills Phys. Lab., Tyndall Ave, Bristol B58 1TL, Avon England) Thermoreversible gelation of atactic polystyrene: phase-transformation and morphology *Polymer* 29/1988/1378
- HILLERT, M. (Royal Inst. Technol. Div. Phys. Met., S-10044 Stockholm 70 Sweden) Partial Gibbs energies from Redlich-Kister polynomials *Thermochim. Acta* 129/1988/71
- HOANG, T., GUYOT, A. (Thermal dehydrochlorination and stabilisation of poly(vinylchloride) in solution: Part II. Effects of HCl readdition reaction *Polym. Degrad. Stabil.* 21/1988/165
- HOFFMAN, W. P., VASTOLA, F. J., WALKER, P. L. (USAF, AFAL, RKBN, Edwards, AFB, CA 93523 USA) Pyrolysis propylene over carbon active sites II. Pyrolysis products *Carbon* 26/1988/485
- HOFSTRAAT, J. W., SCHENKEVELD, A. J., DEJONGE, C. G. N., GOOIJER, C., VELTHORS, N. H. (Ministr. Traff. and Publ. Works, Dept. Publ. Works, Div. Tidal Waters, Nijverheid sstr. 2, 2288 BB, Rijswijk Netherlands) Temperature effects on highly resolved laser induced fluorescence spectra of tetracene in solid solutions at a cryogenic temperatures *J. Mol. Struct.* 175/1988/85
- HOFSTRAAT, J. W., SCHENKEVELD, A. J., GOOIJER, C., VELTHORST, N. H. (Minist. Traff. and Publ. Works, Dept. Publ. Works, Div. Tidal Water, Nijverheidsst 2, 2288 BB Ruswijk Netherlands) Temperature dependent site structure of the phenalenyl radical in N-pentane and N-hexane Shpolskii matrices *J. Mol. Struct.* 174/1988/23
- HOR, T. S. A., CHAN, H. S. O., Chiam, C. S. M., KOK HWA LIU (Natl. Univ. Singapore, Fac. Sci., Dept. Chem. Kent Ridge, Singapore 0511 Singapore, Fac. Sci., Dept. Chem. Kent Ridge, Singapore 0511 Singapore) Thermal degradation of transition metal carbonyl complexes. Part III. Thermogravimetric and differential scanning calorimetric studies of thiophenylphosphine pentacarbonyls of chromium, molybdenum and tungsten *Thermochim. Acta* 128/1988/175
- HOVEY, J. K., HEPLER, L. G., TREMAINE, P. R. (Univ. Alberta, Dept. Chem., Edmonton, Alberta, Canada T6G 2G2) Apparent molar heat capacities and apparent molar volumes of  $\text{Hg}(\text{ClO}_3)_2$  (aq) and  $\text{Pb}(\text{ClO}_4)_2$  (aq) at 298.15 K *J. Chem. Thermodyn.* 20/1988/595
- HOVEY, J. K., HEPLER, L. G., TREMAINE, P. R. (Univ. Alberta, Dept. Chem., Edmonton, Alberta, Canada, T6G 2G2) Thermodynamics of aqueous EDTA systems: apparent and partial molar heat capacities and volumes of aqueous  $\text{EDTA}^{4-}$ ,  $\text{HEDTA}^{3-}$ ,  $\text{H}_2\text{EDTA}^{2-}$ ,  $\text{NaEDTA}^{3-}$  and  $\text{KEDTA}^{3-}$  at 25°C. Relaxation effects in mixed aqueous electrolyte solutions and calculations of temperature dependent equilibrium constants *Can. J. Chem.* 66/1988/881
- HRMA, K., HAN, W. T., COOPER, A. R. (Case Western Reserve Univ., Cleveland, OH, 44206, USA) Thermal heating of cracks in glass *J. Non-Cryst. Solids* 102/1988/88
- IGAMBERDYEV, K. T., HAMADALINOV, A. T., MAKHMUDOV, K., TURSUNOV, S. O., KHA-BIBULLAEV, P. K. (Acad. Sci. UZSSR, Inst. Polym. Chem. And Phys., Tshkent, Uzbekistan USSR) Anomalies in the thermal properties of nickel-doped silicon *Fiz. Tverd. Tela* 30/1988/1205
- ILLIES, A. J., (Auburn Univ., Med. CTR. Dept. Biochem., Durham NC 27710 USA) Thermochemistry for the gas-phase ion-molecule clustering of  $\text{CO}_2^+\text{CO}_2$ ,  $\text{SO}_2^+\text{CO}_2$ ,  $\text{N}_2\text{O}^+\text{N}_2\text{O}$ ,  $\text{O}_2^+\text{CO}_2$ ,  $\text{NO}^+\text{CO}_2$ ,  $\text{O}_2^+\text{N}_2\text{O}$  and  $\text{NO}+\text{N}_2\text{O}$ : Description of a new hybrid drift tube (ion source with coaxial electron beam and ion exit apertures) *J. Phys. Chem.* 92/1988/2889
- INABA, A., KASHIWAGI, T., BROWN, J. E. (NBS., CTR Fire Res., Gaithersburg, MD 20899

- USA) Effects of initial molecular weight on thermal degradation of poly(methyl methacrylate): Part 1 - Model 1 *Polym. Degrad. Stabil.* 21/1988/1
- ITO, H., UEDA, M. (IBM Corp., Almaden-Res. Ctr., Div. Res., 650 Harry Rd., San Jose CA 95120 USA) Thermolysis and photochemical acidolysis of selected polymethacrylates *Macromolecules* 21/1988/1375
- IYER, V. S., VENUGOPAL, V., MOHAPATRA, S., SINGH, Z., ROY, K. N., PRASAD, R., SOOD, D. D. (Bhabha Atom Res. Ctr., Dev. Fuel Chem., Bombay 40085 India) Standard molar Gibbs free energy of formation of  $\text{Na}_2\text{ZrO}_3(2)$  *J. Chem. Thermodynam.* 20/1988/781
- IZRL, G. H., VIJAYAKUNAR, C. T., LEDERER, K. (Univ. Min. and Met. Leoben, Inst. Chem. and Phys. Technol., Kunststoffe, A-8700 Leoben Austria) A comparative study of the thermal degradation of unsaturated polyester resins containing various chlorinated norbornene dicarboxylic acid units in the backbone. Part II. The fate of the styrene moiety *J. Anal. Appl. Pyrol.* 13/1988/305
- JACKOWSKI, A. W. (Polish Acad. Sci., Inst. Phys. Chem., Kasprzaka 44-52, PL-01224 Warsaw Poland) Multiple phase equilibria in(*n*-hexane + 4-octyl-4'-cyanobiphenyl) *J. Chem. Thermodyn.* 20/1988/721
- JAKOBI, R., SPIERING, H., WICHL, L., GMELIN, E., GÜTLICH, P. Thermoanalytical investigations on mixed crystals of the spin-crossover system  $[\text{Fe}_x\text{Zn}_{1-x}(2\text{-pic-ND}_2)_3] \text{Cl}_2 \cdot \text{EtOH}$  *Inorg. Chem.* 27/1988/1823
- JASRA, R. V., BHATT, B. D., GARG, V. N., BHAT, S. G. T. (Indian Petrochem. Corp. Ltd., Res. Ctr., Vadodara 391346 India) Mass spectral studies on the thermal desorption of aliphatic amines from the surface of -type zeolites *Thermochim. Acta* 128/1988/115
- JASRA, R. V., BHATT, B. D., GARG, V. N., BHAT, S. G. T. (Indian Petrochem. Corp. Ltd., Res. Ctr. PO Petrochem., Baroda 391346 Gujarat India) Thermal desorption of  $\text{C}_6\text{-C}_9$  n-alkenes from the surface of zeolite HY *Appl. Catal.* 39/1988/49
- JERZEWSKI, A., PIETRZAK, T. M., GÓRAJSKI, P. (Univ. Lodz, Dept. Phys. Chem., PL-91416 Lodz Poland) Choice of the weighing factor in the analysis of calorimetric data *Polish J. Chem.* 61/1987/861
- JINEN, E. (Kiyoto Inst. Technol. Coll. Techn., Sakyo KU, Kyoto 606 Japan) Heat distortion of phenolic fiber reinforced thermoplastic *J. Appl. Polym. Sci.* 36/1988/773
- JOHNSON, K. A. (Univ. Liverpool, Dept. Ipi, Chem., POB 147 Liverpool L69 3BX England) An asymmetric potential to describe the excess enthalpies of binary liquid mixtures near their (liquid + liquid) critical states *J. Chem. Thermodyn.* 20/1988/889
- JORDA, J. L., GACHON, J. C., Charles, J., HERTZ, J. (Univ. Nancy 1, Thermodynam. Met. Lab., Cnrs. UA 1108, BP 239, F-54506, Vandoeuvre Nancy France) High temperature study of the zirconium-rhodium system *J. Thermal Anal.* 34/1988/551
- JUNEJA, H. D., MUNSHI, K. N. (Nagpur Univ. Dept. Chem., Nagpur 440010, Maharashtra India) Magnetic, spectral and thermal studies on some new polymeric complexes of Mn(II), Co(II), Ni(II), Cu(II) and Zn(II) with bis-phenylhydrazides of suberic and sebacic acids *Indian J. Chem. Sect. A* 27/1988/451
- KAIM, A., KAMINSKI, J., KOŁODZIEJSKI, W. (Univ. Warsaw, Dept. Chem., ul. Pasteura 1, PL-02093 Warsaw Poland) Thermal self-condensation of cyclohexane *Acta Chim. Hung.* 125/1988/141
- KALOUSTIAN, J., PAULI, A. M., PASTOR, J. (Fac. Pharm. Marseille, Chim. Analyt. Lab., 27 BD J. Moulin, F-13385 Marseille 5, France) DTA for identification of polystyrene and its copolymers use in food and pharmaceutical industries (French) *J. Thermal Anal.* 34/1988/465
- KAPINKE, F. D., ONDRUSCHKA, B., ZIMMERMANN, G., DERMIETZEL, J. (Acad. Sci. GDR, Cent. Inst. Organ. Chem. Dept. Basic Organ. Mat., DDR 7050 Leipzig Ger. Dem. Rep.) Rearrangement reactions in the thermal formation of aromatics from cycloolefins  $^{14}\text{C}$ -labelling studies *J. Anal. Appl. Pyrol.* 13/1988/259

- KASPRZYCKA-GUTTMAN, T., VERA, J. H. (McGILL Univ., Dept. Chem. Engn., Montreal, Quebec Canada H3A 2A7) Excess enthalpies and excess volumes of (2,6-lutidine + an n-alkane) *J. Chem. Thermodyn.* 20/1988/805
- KAZAKOV, A. J., RUBTSOV, Y. J., ANDRIENKO, L. P., MANELIS, G. B. (Acad. Sci. USSR, Inst. Chem. Phys., Chernogolovka 142432 USSR) Kinetics and mechanism of thermal decomposition of nitric acid in sulfuric acid solutions *Bull. Acad. Sci. USSR* 36/1987/1999
- KHADIKAR, P. V., SAPRE, N. S. (3 Khatipura rd, Indore 452007 India) Thermal decomposition of the malato-aquo complex of thallium(III) the mechanism of thermal dehydration of thallium(III) malate trihydrate *Thermochim. Acta* 128/1988/55
- KHOLOPOV, E. V. (Acad. Sci. USSR, Inst. Inorgan. Chem., Novosibirsk USSR) Elastic mechanism of low-temperature stabilization of the many-domain state in quasi-one-dimensional systems *Fiz. Nizkich Temp.* 14/1988/411
- KIRSCHNER, J., LANGENBACH, E., (KFA Julich GmbH, Inst. Grenzflächenforsch und Vakuumphys., Postfach 1913, D-5170 Julich 1 Fed. Rep. Ger.) Temperature dependence of the exchange splitting in Ni studied by spin-polarized electron-energy-loss spectroscopy *Solid State Commun.* 66/1988/761
- KISELEV, Y. M., FADEEVA, N. E., POPOV, A. I., SPITZIN, V. I. (Moscow State Univ. Dept. Chem., Rare Elements Lab., Lenin Hills, Moscow 119899 USSR) Acid-base properties of xenon di- and tetrafluoride in high temperature reactions *Z. Anorg. Allg. Chem.* 559/1988/182
- KHAN, M. M. T., KHAN, B. T., BEGUM, S. (Cent. Salt and Marine, Chem. Res. Inst., Bhavnagar, 364002 Gujarat, India) Thermodynamics of homogeneous hydrogenation. Part IV. Synthesis, characterization and hydride formation of the Pd(II) complexes chloro-bis (diphenylphosphinoethyl) aminopalladium(II) Chloride and chloro-tris-(diphenylphosphinoethyl) aminopalladium(II) chloride and their catalysis in the homogeneous hydrogenation of cyclohexane *J. Mol. Catal.* 45/1988/305
- KIM, S. S., SEO, H. H., HWANG, Y. Y., LEE, J. K. (Kyungpook Natl. Univ., Dept. Polymer Sci., Taegu 635 South Korea) Effect of temperature on the binding of methyl orange by crosslinked poly(4-vinylpyridine) *J. Polym. Sci.* 26/1988/347
- KIRKLIN, D. R., DOMALSKI, E. S. (Nbs., Ctr. Chem. Phys., Div. Chem. Thermodyn. Gaithersburg, MD 20899 USA) Enthalpies of combustion of triphenylphosphine and triphenylphosphine oxide *J. Chem. Thermodyn.* 20/1988/743
- KLEINRAHM, R., DUSCHEK, W., WAGNER, W., JAESCHKE, M. (Ruhr Univ. Bochum, Inst. Thermo and Fluidodynam., D-4630 Bochum, Fed. Rep. Ger.) Measurement and correlation of the (pressure, density, temperature) relation of methane in the temperature range from 273.15 to 323.15 K at pressures up to 8 MPA *J. Chem. Thermodyn.* 20/1988/621
- KLIMENKO, V. G., TERESCHENKO, A. P. (Belgorod Technol. Inst. Belgorod USSR) Influence of thermal treatment of crystal hydrates of sulfates of s-metals, p-metals and d-metals on their activity in mixtures with anhydrite *Izv. Vyssh. Uch. Zav. Khim. T.* 31/1988/85
- KLUSMEIER, W., VOGLER, P., Ohrbach, K. H., WEBER, H., KETTRUP, A. (Univ. Gesamtsch Paderborn, Dept. Appl. Chem., POB 1621, D-4790 Paderborn Fed. Rep. Ger.) Thermal decomposition of decabrodiphenyl ether *J. Anal. Appl. Pyrol.* 13/1988/277
- KONINGS, R. J. M., CORDFUNKE, E. H. P., OUWELTJES, W. (Netherlands Energy Res. Fdn., Petten, Netherlands) The standard enthalpies of formation of hydroxides. II. The alkali hydroxides CsOH and KOH *J. Chem. Thermodyn.* 20/1988/777
- KORNILOV, A. N. (MV Lomonosov State Univ., Moscow 117234 USSR) Calorimetric measurements in the preregular domain. Difference equation method *Zh. Fis. Khim. SSSR* 62/1988/1220
- KOROLCHENKO, I. A., MARININA, L. K., MAKAROV, G. V. (DI Mendeleev Chem. Technol. Inst., Moscow USSR) Thermal decomposition of

- a series of light producing components and their intermediates *Izv. Vyssh. Uch. Zav. Khim. T. 31/1988/33*
- KOTEK, R., KRIGBAUM, W. R. (BASF Corp., Div. Fibers, Enca, NC, 28728 USA) Thermotropic polyesters of 4'-hydroxyphenyl-4-hydroxybenzoate: a study of the transition temperatures *J. Polym. Sci. B. 26/1988/1173*
- KOZNA, M. P., TIMOFEEVA, L. P., LUKYANOVA, V. A., PIMENOVA, S. M., KASYAN, L. I. (MV Lomonosov State Univ., Dept. Chem., Moscow 117234 USSR) Enthalpies of formation of some alicyclic epoxy-compounds *Zh. Fiz. Khim. SSSR 62/1988/1203*
- KRASNIKOV, V., VAIVADA, M., KONSTANTS, Z. (Acad. Sci. LASSR, Inst. Inorgan. Chem., Miera St 34, Riga 229021 Latvia, USSR) Synthesis of cerium phosphates by thermal polycondensation of mixtures  $\text{CeO}_2\text{-NH}_2\text{PO}_4$  and investigation of their structure *J. Solid State Chem. 74/1988/1*
- KRICHELDORF, H. R., DÖRING, V., BEUERMANN, I., ECKHARD, V. (Univ. Hamburg, Inst. Techn. and Makromolek. Chem., Bundesstr 45, D-2000 Hamburg 13, Fed. Rep. Ger.) New polymer synthesis-30. Thermotropic polyesters of 2-(2-naphthylthio)-terephthalic acid *Macromol. Chem. 189/1988/1437*
- KRICHELDORF, H. R., DÖRING, V., ECKHARDT, V. (Univ. Hamburg, Inst. Techn. and Makromolek. Chem. Bundesstr. 45, D-2000 Hamburg 13, Fed. Rep. Ger.) New polymer synthesis. 29. Thermotropic (co)polyesters of 2-phenylthioterephthalic acid and various diphenols *Makromol. Chem. 189/1988/1425*
- KRISTALLOV, L. V., KOZHEVNIKOV, V. L., CHESHNITSKII, S. M., PALCHIKOVA, S. Y. (Acad. Sci. USSR, Ural Sci. Ctr., Inst. Chem. Sverdlovsk USSR) Thermal properties of  $\text{CoV}_2\text{O}_6$  vanadate *Zh. Neorg. Khim. SSSR 33/1988/843*
- KRIVTSOV, N. V., NIKITINA, Z. K., ROSOLOVSKII, V. Y. (Acad. Sci. USSR Inst. New Chem. Problems, Chernogolovka, 142432 USSR) Thermochemical properties of cadmium perchlorate and its hydrates *Bull. Acad. Sci. USSR 36/1987/2231*
- KSIAZCZAK, A., ANDERKO, A. (Techn. Univ. Polytech. Warsaw, Dept. Phys. Chem. PL-00664 Warsaw, Poland) A chemical approach to the prediction of thermophysical properties of associating compounds *Ber. Bunsen. Ges. Phys. Chem. 92/1988/496*
- KSIAZCZAK, A. (Warsaw Techn. Univ., Dept. Phys. Chem., PL-00664 Warsaw Poland) Vapour pressures of binary three-phase (solid + liquid + vapour) mixtures. II. Melting temperatures of 1-hexadecanol-containing solid phases *J. Chem. Thermodyn. 20/1988/791*
- KSIAZCZAK, A., PARCZEWSKA, B. (Warsaw Techn. Univ. Dept. Phys. Chem., PL-00664 Warsaw Poland) Vapour pressure of binary three-phase (solid + liquid + vapour) mixtures. I. Melting temperatures of polymorphic phases *J. Chem. Thermodyn. 20/1988/785*
- KUBASCHEWIKI, O. (VG Semicon, Ltd., Imberhorne Lane, E Griustead RH19 1XZ, Sussex England) Experimental thermochemistry of alloys *Thermochim. Acta 129/1988/11*
- KURIYAMA, N., SAKIYAMA, M. (Osaka Univ., Fac. Sci., Chem. Thermodyn. Lab., Toyonaka, Osaka 560 Japan) Standard enthalpy of formation of  $[\text{Ni}(\text{NH}_3)_6] \text{Cl}_2(\text{Cr})$  as determined by solution-reaction calorimetry *J. Chem. Thermodyn. 20/1988/729*
- KURREVICH, G. J., SKOROPANOV, A. S., RADIMOV, N. P., GRIDINA, Y. F. (VI Lenin State Univ. Minsk, Belorussia USSR) Thermophysical investigation of carbon fibrous materials and carbon-carbon-type composites *J. Appl. Chem. 60/1987/2311*
- KWAK, Y. T., WINTER, W. T. (Sunny Coll. Environm. Sci. and Forestry, Dept. Chem., Syracuse, NY 12310 USA) Low-temperature exotherm in starch (water systems: a retrogradation marker) *J. Appl. Polym. Sci. 35/1988/2091*
- LABRADOR, M., TAULER, E., CUEVAS-DIARTE, M. A., HOUSTY, J. R., CHANK, N. B., HAËGET, Y. (Univ. Barcelona, Dept. Cristallog., Barcelona 7 Spain) pDCB phase-transitions, and pDCB-pDBB and pDCB-pBCB phase diagrams. (French) *J. Thermal Anal. 34/1988/537*

- LAI, Y. C., DEBONA, B. T., PREVORSEK, D. C. (Bausch and Lomb Inc., Profess. Prad. Res. and Dev., Rochester, NY 14692, USA) Thermotropic polyester carbonates. II. Polyester carbonates as high performance fibers *J. Appl. Polym. Sci.* 36/1988/805
- LAI, Y. C., DEBONA, B. T., PREVASEK, D. C. (Bausch and Lomb Inc., Profess. Prod. Res. and Dev., Rochester, NY, 14692 USA) Thermotropic polyester carbonates. III. Thermotropic polyester carbonates as self-reinforced plastics *J. Appl. Polym. Sci.* 36/1988/819
- LAM, A. C., AVCHER, D. G. (Univ. Texas, Dept. Chem. Engr., Austin, TX 78712 USA) Enthalpy of dilution of dodecyl- and tetradecyl-trimethylammonium bromides in aqueous sodium bromide at elevated temperatures *J. Chem. Thermodyn.* 20/1988/825
- LAMANTIA, F. P., VALENZE, A. (Univ. Palermo, Ist. Ingn. Chim., Viale Sci., I-90128 Palermo, Italy) Crystallization kinetics of LDPE/Ny6 blends *J. Thermal Anal.* 34/1988/497
- LASKY, R. C., KRAMER, E. J., HUI, C. Y. (Cornell Univ., Dept. Mat. Sci. and Engr. Ithaca, NY 14853 USA) Temperature dependence of case II diffusion *Polymer* 29/1988/1131
- LEFELAR, J. A. (Monsanto Chem. Co., 730 Worcester St., Springfield, MA 01151 USA) Effect of heating and aging on microstructure of polyester-polyamide copolymer *J. Polym. Sci.* 26/1988/1469
- LEHRLE, R. S., SHORTLAND, A. (Univ. Birmingham, Dept. Chem., Birmingham B15 2TT, W Midlands England) A study of the purification of methyl methacrylate suggests that the "thermal" polymerisation of this monomer is initiated by adventitious peroxides *Eur. Polym. J.* 24/1988/425
- LETCHER, T. M., BAXTER, R. C., BEAN, A., SEWRY, J. D. (Rhodes Univ. Dept. Chem., Grahamstown 6141 South Africa) Activity coefficients of the tetramethyl compounds of Group 14 elements in n-alkane solutions from g.l.c. measurements *J. Chem. Thermodyn.* 20/1988/581
- LIU, G., EICK, H. A. Low-temperature synthesis of the fluorite modification of lanthanoid(II) chlorides *Inorg. Chem.* 27/1988/2161
- LINCOLN, F. J., SELLAR, J. R. HYDE, B. G. (Univ. Western Australia, Sch. Chem. Nedlands, WA 6009 Australia) A new examination of the thermodynamic properties of the oxygen-deficient fluorite-type phase  $\alpha\text{-PrO}_{2-\delta}$  *J. Solid State Chem.* 74/1988/268
- LIPATNIKOV, V. N., Rempel, A. A., Gusev, A. I., (Acad. Sci. USSR, Ural Sci. Ctr., Inst. Chem., Sverdlovsk USSR) Thermodynamic model of the atomic ordering. 4. Order-disorder transition in nonstoichiometric tantalum carbide *Zh. Fiz. Khim. SSSR* 62/1988/589
- LJUNGGREN, S., ERIKSSON, J. C. (Royal Inst. Technol., Dept. Phys. Chem., S-10044 Stockholm 70 Sweden) The Maxwell stress tensor and the thermodynamics of the diffuse double layers at surfactant-loaded interfaces *J. Chem. Soc.* 84/1988/329
- LOMAS, J. S., ADENIER, A., BOUSSAD, N. (Univ. Paris 07, CNRS, Inst. Topol. Dynam. Syst., 1 Ruy Guy Brosse, F-75221 Paris 05 France) Thermolysis of aryl-test-butyl-methanols. Substitutional effects and benzyl *Bull. Soc. Chim. France* 2/1988/395
- LUKAS, W. (WROCLAW Techn. Univ., Inst. Inorgan. Chem. and Met. Rare Elements, Wyspianskiego 27, PL-50370 Wroclaw Poland) Thermodynamic properties of the  $\text{RbReO}_4\text{-CsReO}_4$  system *Ber. Bunsen Ges. Phys. Chem.* 92/1988/600
- LUSHNIKOV, V. N., RUBTSOV, Y. I., ERE-MENKO, L. T., KORDEV, A. M. (Acad. Sci. USSR, Inst. Chem. Phys., Chernogolovka, 142432 USSR) Calorimetry and standard enthalpy of isopropylnitrate *Zh. Fis. Khim. SSSR* 62/1988/1209
- LYKASOV, A. A., PAVLOVSKAYA, M. S. (Chelyabinsk Politechn. Inst., Chelyabinsk USSR) Thermodynamic properties of manganowustite *Zh. Fis. Khim. SSSR* 62/1988/1188
- MACIEL, M. R. V., Francesconi, A. Z. (Univ. Leeds LS2 9J5 W Yorkshire England) Excess Gibbs free energies of n-hexane + propan-1-01 at 338.15 and 348.15 K and of (n-hexane + propan-2-01) at 323.15, 338.15, and 348.15 K *J. Chem. Thermodyn.* 20/1988/539

- MAHAPATRA, S., PRASAD, T. P. (Reg. Res. Lab. Bhubaneswar 751013 India) Solid-state hydrolysis iron(II) sulphate heptahydrate *Thermochim. Acta* 128/1988/305
- MALAVASIC, T., MUSIL, V. (Boris Kidric Inst. Chem., Hajdrinova 19, Ljubljana, Yugoslavia) Thermal properties of binary polyolefin blends *J. Thermal Anal.* 34/1988/503
- MALLIKA, C., Sreedharan, O. M. (Indira Ghandi Ctr. Atom Res., Met. Dev. Lab., Kalpakkom 603102 Tamil Nadu India) Standard molar Gibbs energy of formation of  $\text{MoTe}_2$  from e.m.f. measurements *J. Chem. Thermodyn.* 20/1988/769
- MASOUD, M. S., ABDEL-NABBY, SOLIMAN, E. M., ABDEL-HAMID O. H. (Fac. Sci. Alexandria, Dept. Chem., Alexandria Egypt) The behaviour of some cobalt, nickel and copper amino acid complexes at different temperatures *Thermochim. Acta* 128/1988/75
- MASUDA, Y., SUZUKI, T., YAMADA, T., SAWADA, K. (Niigata Univ., Dept. Gen. Educ., Niigata 95021, Japan) Thermal decomposition of solid complexes of cadmium chloride with substituted pyridines *Thermochim. Acta* 128/1988/225
- MATEO, M. D., FORTEZA, R., CERDÁ, V., BAUCCELLS, M., CACORT, G., ROURA, M. (Univ. Balearic Isl. Fac. Sci., Dept. Analyt. Chem., E-07071 Palma de Mallorca Spain) A comparative study of a kinetic-thermometric method and the atomic absorption cold vapour technique for determination of mercury traces and ultra-traces *Thermochim. Acta* 128/1988/21
- MATSUO, M., Sawatari, C. (Nara Womens Univ., Fac. Home Econ., Dept. Clothing Sci., Nara 630 Japan) Temperature dependence of the crystal lattice modulus and the Young's modulus of polyethylene *Macromolecules* 21/1988/1653
- MATVEEV, V. V., LJUBCHENKO, I. S., MARCHENKO, G. N., AVANESOVA, M. S. (AV Topchiev Petrochem. Synth. Inst., Moscow USSR) Thermal theory of surface ignition of condensed substances *Zh. Fis. Khim. SSSR* 62/1988/1416
- McCARGAR, J. W., Neff, V. D. (Kent State Univ., Dept. Chem., Kent, OH 42242 USA) Thermodynamic of mixed-valance intercalation reactions: the electrochemical reduction of prussian blue *J. Phys. Chem.* 92/1988/2598
- McINTYRE, J. E., MAJ, P. E. P., SILLS, S. A., TOMKA, J. G. (Univ. Leeds, Dept. Text. Ind., Leeds LS2 9JT, W Yorkshire England) Thermotropic polyesters: fibres and mouldings from poly(chloro-1,4-phenylene terephthalate-co-4,4'-oxybisbenzoate)s *Polymer* 29/1988/1095
- MELISSARIS, A. P., MIKROYANNIDIS, J. A. (Doiranis 28, GR-26441 Patras Greece) High temperature phosphorylated or non-phosphorylated laminating resins based on maleimido-substituted aromatic s-triazines *J. Polym. Sci.* 26/1988/1885
- MEN, D., YANG, J., LIANG, CH., ZHANG, L., GAO, H., YANG, R. (Liaoning Univ., Dept. Chem., Shenyang, Peoples R China) Thermodynamic properties of multicomponent electrolyte solutions in mixed solvents. 5.  $\text{HCl} + \text{NaCl} + \text{urea} + \text{water}$  at 278.5 - 318.15 K *Can. J. Chem.* 66/1988/637
- MERCIER, R., SILLION, B. (Ctr. Etud. Mat. Organ Technol Avancee, BP 3, F-69390 Vernaison France) Ethynyl terminated bisquinazoline. A new thermosetting heat resistant resin *Polym. Bull.* 19/1988/561
- MERKULOV, A. A., POPOV, V. T., PUSTILNIKOV, V. Y. (All Union Glass Machinery Res. and Design Inst., Moscow, USSR) Primary reactions of thermal pyrolysis of acetylene *Zh. Fis. Khim. SSSR* 62/1988/1198
- MESSOW, U., QUITZSCH, K., KRAUSE, K. (Karl Marx Univ., Sect. Chem., Talstr 35., DDR-7010 Leipzig, Ger. Dem. Rep.) Interpreting thermodynamic parameters of state via the cyclic process method *Z. Phys. Chem. Leipzig* 269/1988/433
- MIGNANELLI, M. A., POTTER, P. E. (Harwell Lab. Div. Chem., Oxford, OX11, Ora England) On the chemistry of the reactions between liquid sodium and uranium-plutonium fuel for fast breeder nuclear reactors *Thermochim. Acta* 129/1988/143
- MINABE, M., YOSHIDA, M., SAITO, S., TOBITA, K., TODA, T. (Utsunomiya Univ., Fac. Engn., Dept. Ind. Chem. Utsunomiya, Tochigi 321 Japan) Reinvestigation on thermal cyclo-



- additions of 1-aryl-2-(9-fluorenylidene)1-haloethylenes *Bull. Chem. Soc. Jpn.* 61/1988/2067
- MINKOVA, L., NIKOLOVA, M., NEDKOV, E. (Bulgarian Acad. Sci. Cent. Lab. Polymers, BU-1040 Sofia Bulgaria) DSC and thermomechanical investigations of LDPE film irradiated with fast electrons *J. Macromol. Sci.-Phys.* 27/1988/99
- MISAK, N. Z., ELNAGGAR, I. M. (Atom Energy Estab., Nucl. Res. Ctr., Dept. Chem., Atom Energy, Post 13759, Caïor, Egypt) Thermodynamics of alkali cation exchange and selectivity modification in hydrous tin oxide *Prog. Polym. Sci.* 13/1988/161
- MITRA, S., LOMPMAN, G. M. (Three M. Co., Corp. Res. Labs., St. Paul, MN 55144 USA) Kinetics of thermal and hydrolytic decomposition of 1,3,4-dioxazol-2-one derivatives *J. Org. Chem.* 53/1988/2674
- MIZEROVSKII, L. N., VANSYATSKAYA, L. N. (Ivanovo Chem. Technol. Inst. Ivanovo USSR) Temperature dependence of solubility parameters of organic liquids *Izv. Vyssh. Uch. Zav. Khim. T.* 31/1988/51
- MODICA, G., DIRENZO, F., TEMPESTI, E., MAZZOCCHIA, C. (Politechn. Milan, Dipartimento Chim. Ind. and Ingn. Chim., P. Leonardo Da Vinci 32, I-20133 Milan, Italy) Thermal stability of substituted poly-xylylenes *J. Thermal Anal.* 34/1988/473
- MOK, C. Y., KOK, L. Y., CHIN, W. S., HUANG, H. H. (Natl. Univ. Singapore, Dept. Chem., Kent Ridge, Singapore OS11, Singapore) Thermal decomposition of gaseous phenyl-nitromethane. Product identification by photoelectron spectroscopy *J. Mol. Struct.* 175/1988/429
- MOLINA, F. V., POSADAS, D. (Univ. Buenos Aires, Fac. Ciencias Exactas and Nat., Dep. Quim. Inorgan Analít. and Quim. Fis., Pabellon 2, Buenos Aires Argentina) Temperature dependence of the adsorption of chloride ion on platinum electrodes *Electrochim. Acta* 33/1988/661
- MOLLER, M. A., KLEIN, M. L. (McMaster Univ. Dept. Chem., Hamilton, Ontario, Canada L8S 4M1) The low-temperature structure of ethyklene monolayers physisorbed on the graphite basal plane *Can. J. Chem.* 66/1988/774
- MONTONESI, E., MODICA, G. PAPPALARDO, G. C. (Politechn. Milan, Dipartimento Chim. Ind. and Ingn. Chim., G Natta Piazza L Da Vinci 32 I-20133 Milan Italy) High temperature proton conductors. Note III. Solid state conductivity of mixtures of calcium phosphates at 300-400°C under steam pressure *Solid State Ionics* 26/1988/203
- MORIYA, K., MATSUO, T., SUGA, H. (Osaka Univ., Fac. Sci., Dept. Chem., Toyonaka, Osaka 560 Japan) Calorimetric and dielectric studies of phase transitions in rubidium nitrite *Bull. Chem. Soc. Jpn.* 61/1988/1911
- MORIYOSHI, T., UOSAKI, Y., MATSUURA, H., NISHIMOTO, W. (Univ. Tokushima, Fac. Engn. Dept. Chem. Engn., Tokushima 770 Japan) (Liquid + liquid) equilibria of (water + ethanol + n-hexane) from 0.1 to 200 MPa at 298.15K *J. Chem. Thermodyn.* 20/1988/551
- MORIYOSHI, T., UOSAKI, Y., SAKAMOTO, T. (Univ. Tokushima, Fac. Engn., Dept. Chem. Engn., Tokushima 770 Japan) (Liquid + liquid) equilibria of (water + ethanol + trichloromethane) from 0.1 to 200 MPa at 298.15 K *J. Chem. Thermodyn.* 20/1988/589
- MORISSON, J. A. (McMaster Univ., Dept. Chem., Hamilton, Ontario Canada L8S 4M1) Thermodynamics of solid methanes: retrospective and prospective *J. Chem. Thermodyn.* 20/1988/641
- MORSS, L. R., SONNENBERGER, D. C., THORN, R. J. (Argonne Natl. Lab., Div. Chem., Argonne, IL 60439 USA) Thermochemistry of rare-earth-metal-alkaline-earth-metal-copper oxide superconductors *Inorg. Chem.* 27/1988/2106
- MUKHERJEE, R. N., SHANKAR, S., SHASTRI, B. B. S. (Indian Inst. Technol., Dept. Chem., Bombay 400076 India) Thermogravimetric studies on the addition compounds of cobalt and nickel dithiophosphinates with picolines and acetylpyridines *Thermochim. Acta* 128/1988/301
- MURTHY, S. S. N. (B1-60 Old Pattabhipuram, Guntur 522066, Andhra Pradesh India) Temperature dependence of relaxation processes in amorphous polymers *J. Polym. Sci.* 26/1988/361
- MURTHY, S. S. N. (B-60 Old Pattabhipuram, Guntur 522066 Andhra Pradesh India) Temper-

- ature dependence of the dielectric relaxation processes in glass-forming materials *J. Chem. Soc. Faraday Trans. II* 84/1988/671
- MUSAEV, F. N., KAREV, Z. S., PASHAEV, S. A., CHERKEZOVA, Y. R. N. Narimanov Med. Inst., Baku Azerbaizhan USSR) Structure and thermal properties of  $[\text{Ni}(\text{ortho-02NC6H4COO}/2 \cdot 4 \text{H}_2\text{O} \cdot 2\text{H}_2\text{O})]$  *Koord. Khim.* 14/1988/832
- NAZAROVA, S. Z., KOUROV, N. I., GUSEV, A. I. (Acad. Sci. USSR, Ural Sci. Ctr., Inst. Chem., Sverdlovsk USSR) Low temperature heat capacity of super conducting  $\text{Nb}_x\text{Tal-xC}$  solid solutions *Zh. Fiz. Khim. SSSR* 62/1988/606
- NECHVOLODOVA, E. M., GALCHENKO, A. G., ROGOVINA, S. Z., PRUT, E. V., BELGOVSKII, I. M., KHALTUNISKII, N. A. (Acad. Sci. USSR, Inst. Chem. Phys., Moscow V-71 USSR) Effect of thermal treatment on the combustion of epoxy-amine polymers *Khim. Fiz.* 6/1987/696
- NELSON, P. G. (Univ. Hull, Hull HU6 7RX, N Humberside, England) Derivation of the second law of thermodynamics from Boltzmann's distribution law. *J. Chem. Educ.* 65/1988/390
- NEOH, K. G., KANG, E. T., THAN, T. C. (Natl. Univ. Singapore, Dept. Chem. Engn., Kent Ridge, Singapore 0511 Singáporé) Electrical and thermal stability of chemically synthesized conductive polypyrrole-halogen complexes *Polym. Degrad. Stabil.* 21/1988/93
- NISELSON, L. A., TRETYAKOVA, K. V., TAVETKOV, V. G., KAZIMIROV, V. N. Thermochemistry of products of niobium and tantalum pentachloride interaction with ethyl alcohol *Zh. Neorg. Khim.* 33/1988/897
- NOVIKOVA, G. Y., KARLINA, I. A., SIDOROVICH, Y. A., KURLYRAND, S. K., KORMER, V. A., LÖBACH, M. I., SHIBAEVA, A. N., CHURLYAEVA, L. A. (SV Lebedev Synthet. Rubber Res. Inst., Leningrad USSR) Structure and low-temperature properties of copolymers of cis-1,4-butadiene and isoprene *Vysokomol Soedin. Ser. A SSSR* 30/1988/1357
- NOVIKOVA, N. V., MATYUSHIN, Y. N., KONKOVA, T. S., VOROBEV, A. B., RYZHOVA, G. L., LEBEDEV, Y. A. (Acad. Sci. USSR, Inst. Chem. Phys., Moscow V-71 USSR) Calorimetric study of the esterification of cellulose by  $\text{H}_2\text{PO}_4 - \text{HNO}_3$  mixtures *Bull. Acad. Sci. USSR* 36/1987/2150
- O'HARE, P. A. G., LEWIS, B. M. (Argonne Natl. Lab., Div. Chem. Technol., Argonne, IL 60439 USA) Thermodynamic stability of orthorhombic black phosphorus *Thermochim. Acta* 129/1988/57
- O'HARE, P. A. G., LEWIS, B. H., PARKINSON, B. A. (Argonne Natl. Lab., Argonne, IL 60439 USA) Standard molar enthalpy of formation by fluorine-combustion calorimetry of tungsten diselenic ( $\text{WSe}_2$ ). Thermodynamics of the high-temperature vaporization of  $\text{WSe}_2$ . Revised value of the standard molar enthalpy of formation of molybdenite ( $\text{MoS}_2$ ) *J. Chem. Thermodyn.* 20/1988/681
- OKUYAMA, K., IKEDA, M., YOKOYAMA, S., OCHIAI, Y., HAMADA, Y., SHIMOMURA, M. (Tokyo Univ. Agr. and Techn., Fac. Technol., Koganei, Tokyo 184 Japan) Heat-induced crystal transformation of synthetic bilayer *Chem. Lett.* 6/1988/1013
- OLÁH, K. (Polytechn. Univ. Budapest, Dept. Phys. Chem., Budafoki út 8, H-1521 Budapest Hungary) Thermostatics, thermodynamics and thermokinetics *Acta Chim. Hung.* 125/1988/117
- ORTEGA, J., GARCIA, J. D. (Polytechn. Univ. Canarias, Escuela Super. Ing. Ind., Catedra Termodinam. and Fisicoquim., Canarias Spain) Excess molar volumes of methyl alkanolate with n-alkanols at 298.15 K *Can. J. Chem.* 66/1988/1520
- OUSHPA, K. K., NANDAN, D., IYER, R. M. (Bhabha Atom Res. Ctr., Div. Chem., Bombay 400085 India) Thermodynamics of water sorption by perfluorosulphonate (nafion-117) and polystyrene-divinylbenzene sulphonate (dowex-50 W) ion-exchange resins at  $298 \pm 1$  K *J. Chem. Soc.* 84/1988/2047

- PAEGLIS, A. U., ÓSHEA, F. X. (Uniroyal Chem. Co. Inc., New Prod. Res. and Dev., Middlebury, CT, 06749 USA) Thermoplastic elastomer compounds from sulfonated EPDM ionomers *Rubber Chem. Technol.* 61/1988/223
- PANAYIOTOU, C. G. (Univ. Thessaloniki, Chem. Proc. Engr. Res. Inst., GR-54006 Thessaloniki Greece) Thermodynamics of alkanol-alkane mixtures *J. Phys. Chem.* 92/1988/2960
- PANDO, C., RENUNCIO, J. A. R., FAUX, P. W., CHRISTENSEN, J. J., IZATT, R. M. (Univ. Oviedo, Fac. Quim., E-33007 Oviedo Spain) The excess enthalpies of (carbon dioxide + n-hexane + toluene) at 358.15 K and 7.50 and 12.50 MPa *J. Chem. Thermodyn.* 20/1988/559
- PARFENYUK, V. I., PARAMONOV, Y. A., KRESTOV, G. A. (Acad. Sci. USSR, Inst. Chem. Nonaq. Solns., Moscow USSR) Thermodynamic characteristics of solvation of the ions Kr, Cl- in the system water - acetone determined by the voltaic potential variation method *Izv. Vyssh. Uch. Zav. Khim. T.* 31/1988/121
- PARÍASWAMI, G., VARAMBAN, S. V., BABU, S. R., MATHEWS, C. K. Low-temperature zirconia oxygen gauges based on RuO<sub>2</sub> electrode *Solid State Ionics* 26/1988/311
- PARKHOMENKO, V. D., ZRAZHEVSKII, V. I., ELTSOVA, T. P. (FE Dzerzhinskii Chem. Technol. Inst., Dnepropetrovsk, Ukraine USSR) Thermodynamic analysis of the N-C-H system *J. Appl. Chem.* 60/1987/2158
- PASQUEVICH, A. F., VIANDEN, R. (Natl. Univ. La Plata, Dept. Fis., Casilla, Correo 67, RA-1900 La Plata Argentina) Temperature dependence of the hyperfine interactions of <sup>111</sup>Cd in germanium *Phys. Rev. B - Condensed Matter* 37/1988/10858
- PATEL, S. P., PATEL, R. G., PATEL, V. S. (Sardar Patel Univ., Dept. Chem., Vallabh Vidyanagar 388120 Gujarat India) Kinetic study of thermal degradation of guar gum esters *Thermochim. Acta* 128/1988/141
- PATEL, R. D., PATEL, R. G., PATEL, V. S. (Sardar Patel Univ., Dept. Chem., Vallabh Vidyanagar 388120, Gujarat India) Kinetics of thermal degradation of cured epoxy resins based on triglycidyl-p-aminophenol *Thermochim. Acta* 128/1988/149
- PAVLOVA, S. S. A., YANKHIAINEN, T. P., GRIBKOVA, P. N., VAKHRUSHEVA, N. A., ZARUBINA, I. V., DUBROVINA, L. V., KOBAK, N. Y. On thermochemical and thermophysical transformations of polyarylates *Vysokomol. Soedin. Ser. A SSR* 30/1988/1017
- PEFFERKORN, E., HAOUAM, A., VAROQUI, R. (Ecole Applicat Hauts Polymers, Ctr. Rech. Macromolec., Cnrs, Inst. Charles Sadron 6 Rue Boussingault, F-67083, Strasbourg France) Thermodynamic of polymers on a plane lattice *Macromolecules* 21/1988/2111
- PELINO, M., BEASLEY, J. D., CHIES, Y. C. (Fac. Ingn. Aquila, Dipartimento Chim. Ingn. Chim. and Mat., I-67100 Aquila Italy) Thermodynamic stability of the molecules YC<sub>2</sub>, YC<sub>3</sub>, YC<sub>4</sub>, YC<sub>5</sub>, YC<sub>6</sub>, YC<sub>7</sub> and YC<sub>8</sub> by high temperature Knudsen effusion mass spectrometry *J. Chem. Phys.* 88/1988/6534
- PERRIN, D., RICHARD, C., MARTIN, R. (Univ. Nancy 1, Chim. Radicalaire Lab., Cnrs, UA 328, BP 239, F-54506 Vandoeuvre Nancy France) H<sub>2</sub>S-promoted thermal isomerisation of cis-2-pentene to 1-pentene and trans-2-pentene around 800K *J. Chem. Kinet.* 20/1988/621
- PERVYKH, E. I., SOROKA, P. I., ZADOROZHNYI, V. M. Thermodynamic analysis of the oxide nickel-zinc ferrite forming system *Izv. Vyssh. Ush. Zav. Khim.* 30/1987/47
- PETERSEN, S., SPENCER, P. J., HACK, K. (Rhein Westfal TH Aachen, Lehrstuhl Theoret. Huttenkunde and Met., Kernbrennstoffe, D-5100 Aachen Fed. Rep. Ger.) A thermodynamic evaluation of the iron-zinc system *Thermochim. Acta* 129/1988/77
- PETROV, V. A., PETROVA, L. D. Heats of fusion of some halides *J. Appl. Chem.* 60/1987/2168
- PINKEY, J. T., XUAN, P. T. (Univ. Sydney, Dept. Organ. Chem., Sydney, NSW 2006 Australia) The thermal  $\alpha$ -substitution of dimedone by vinyl ethers *Aust. J. Chem.* 41/1988/331
- PIKKARAINEN, L. (Univ. Oulu, Dept. Chem., SF-90570 Oulu Finland) Excess enthalpies of phenylmethanol or 2-phenylethanol + 2-butanone or N-methyl-acetamide or N,N-dimethylacetamide *J. Chem. Thermodyn.* 20/1988/855

- PINTOS, M., BRAVO, R., BALUJA, M. C., ANDRADE, M. J. P., DESGRANGES, G. R., GROLIER, J. P. E. (Univ. Santiago de Compostela, Fac. Ciencias, Dept. Fis. Fundamental, Santiago de Compostela, Spain) Thermodynamics of alkanolate + alkane binary mixtures. Concentration dependence of excess heat capacities and volumes *Can. J. Chem.* 66/1988/1175
- PLAGE, B., SCHULTEN, H. R. (Fachsch. Fresenius Dept. Trace Anal., Dambachtal 20, D-6200 Wiesbaden, Fed. Rep. Ger.) Pyrolysis-field ionization mass spectrometry of epoxy resins *Macromolecules* 21/1988/2018
- PLANE, J. M. C., RAJASEKAR, B. (Univ. Miami, Rosenstiel Sch. Marine and Atmospher Sci., 4600 Rickenbacker, Causeway, Miami, FL 33149 USA) Study of the reaction  $\text{Li} + \text{H}_2\text{O}$  over the temperature range 850–1000 K by time-resolved laser-induced fluorescence of  $\text{Li}(2^2\text{P}-2^2\text{S}_{1/2})$  *J. Chem. Soc. Faraday Trans. II* 84/1988/273
- PLATONOVA, N. V., KLIMENKO, I. B., GRACHEV, V. I., KISELEV, G. A. (SM. Kirov Text. and Light Ind. Inst., Leningrad USSR) Thermooxidative degradation of copolymers of acrylonitrile with quaternary diethylaminoethyl methacrylate compounds *Vysokomol. Soedin. Ser. A* 30/1056
- PLESNAR, Z., GIENYCYZ, P., BYLICKI, A. (Polish Acad. Sci., Inst. Phys. Chem., Kasprzaka 44–52, Warsaw 42 Poland) Vapour-liquid equilibrium and solid-liquid equilibrium in the system formed by 1-octanol and n-octane *Thermochim. Acta* 128/1988/93
- POMIANEK, T. (Tech. Univ., Rzeszow, UL, W. Pola 2, PL-35959, Rzeszow Poland) Influence of aluminium and copper, as well as of relative difference of ionic volumes, on the activity of Pb in  $\{(1-x_1-\bar{x}_2)\text{Ni}+x_1\text{Pb}+x_2(\text{Al or Cu})\}$  for  $x_1, x_2$  *J. Chem. Thermodyn.* 20/1988/665
- PREDEL, B. (Max Planck Inst. Met. Res., Inst. Werkstoff-Wissensch., See str. 92., D-7000 Stuttgart 80, Fed. Rep. Ger.) On the thermochemistry of intermetallic compounds *Thermochim. Acta* 129/1988/29
- RABINOVCH, I. B., NISTRATOV, V. P., FEDOSEEV, V. B., SHEIMAN, M. S., KAMELOVA, G. P., KARATAEV, E. N., FEHCHENKO, I. A. (NI Lobachevskii State Univ., Inst. Chem. Res., Gorki USSR) Low-temperature calorimetry and thermodynamic functions diethylzinc *Zh. Fis. Khim. SSSR* 62/1988/1349
- RAGOISKA, A. A., TIKAVYI, F. V. (VI Lenin State Univ., Minsk, Belorussia USSR) Differential thermodynamics functions of cation exchange of alkali metals on amorphous zirconium phosphate *Zh. Neorg. Khim. SSSR* 33/1988/1440
- RAMADAN, A. A. T., ABDEL-MOES, M. S., MARAGHY, S. B., INANY, G. A. (Qatar Univ., Fac. Sci., Dept. Chem. POB 2713 Doha Qatar) Thermodynamic behaviour and stability constants of 5,5-dimethylcyclohexane-2-(2'-hydroxyphenyl) hydrazono-1,3-dione complexes *Acta. Chim. Hung.* 125/1988/3
- RAO, C. N. R. (Indian Inst. Sci., Solid State and Struct. Chem. Unit., Bangalore, 560012, Karnataka India) Solid-state chemistry of high-temperature oxid superconductors: the experimental situation *J. Solid State Chem.* 74/1988/147
- RAO, V. P., CHANDRASEKHAR, J., RAMAMURTHY, V. (Ind. Inst. Sci., Dept. Organ. Chem., Bangalore 560012, Karnataka India) Thermal and photochemical cycloaddition reactions of thiocarbonyls: a qualitative molecular orbital analysis *J. Chem. Soc.* 5/1988/647
- REEDICH, D. E., SHERIDAN, R. S. (Univ. Nevada, Dept. Chem., Reno, NV 89557 USA) Direct evidence for both thermal and photochemical stepwise cleavage in a pair of isomeric azo compounds *J. Amer. Chem. Soc.* 110/1988/3697
- REHAK, E., ABRAHAM, W. (Humboldt Univ., Sect. Chem., DDR-1040, Berlin Ger. Dem. Rep.) Thermolysis 1-acil-3,5,7-triaryl-1,2-diazepines *Z. Chem.* 28/1988/217
- RIALS, T. G., GLASSER, W. G. (Univ. Calif. Berkeley, Dept. Forest Prod., 1301 S 46th St., Richmond, CA 94804 USA) Thermal and dynamic mechanical properties in hydroxypropyl cellulose films *J. Appl. Polym. Sci.* 36/1988/749

- RIANDE, E., GUZMAN, J., CAMPA, J. G. (CSIC, Inst. Ciencia and Technol. Polimeros, E-28006 Madrid Spain) Birefringence, thermoelastic and dielectric studies of cycloaliphatic polyesters *Macromolecules* 21/1988/2128
- RIBEIRO, M. A. V., FERRAO, M. L. C. C. H. Thermochemistry of cobalt(III)  $\beta$ -diketonates *Bull. Chem. Soc. Jpn.* 61/1988/1755
- RIEDL, B., PRUD'homme, R. E. (Univ. Laval, Fac. Foresterie and Geodesie, Dept. Sci. Bois, Quebec City, Quebec Canada G1K 7PA) Thermodynamics of miscible polymer blends using a concentration-dependent  $\chi$  parameter *J. Polym. Sci.* 26/1988/1769
- RIVA, A., TRIFIÓ, F., Vaccari, A. k Mintchev, L., BUSCA, G. (Univ. Bologna, Dipartimento Chim. Ind. and Mat., Viale Risorgimento 4, I-40136 Bologna Italy) Structure and reactivity of Zinc-Chromium mixed oxides. Part 2.—Study of the surface reactivity by temperature programmed desorption of methanol *J. Chem. Soc. Faraday Trans. I.* 84/1988/1423
- RIZKALLA, E. N., NIU, C., CHOPPIN, G. R. (Florida State Univ., Dept. Chem., Tallahassee, Fl., 32306 USA) Thermodynamics and nuclear magnetic resonance studies of lanthanide complexation by ethylenediamine-NN'-diacetate-NN'-di-3-propionate *Inorg. Chim. Acta* 146/1988/135
- ROELAFS, M. G. (Dupont Co., Dept. Cent. Res. and Dev., Wilmington DE 19898 USA) Heat production in steady states and oscillations *J. Chem. Phys.* 88/1988/5516
- ROGERS, D. W., DEJROONGRUANG, K. (Long Isl. Univ., Dept. Chem., Brooklyn, NY 11201 USA) Enthalpies of hydrogenation of the n-heptanes and the methylhexenes *J. Chem. Thermodyn.* 20/1988/675
- ROGL, P., POTTER, P. E. (Harwell Lab., Div. Chem., Didcot OX11 0ra, Oxon England) A critical review and thermodynamic calculation of the binary system: hafniumboron *Calphad* 12/1988/207
- ROGL, P., POTTER, P. E. (Harwell Lab., Div. Chem., Didcot OX11 0ra, Oxon England) A critical review and thermodynamic calculation of the binary system: zirconium-boron *Calphad* 12/1988/191
- RONDININI, S., CAVADORE, A., LONGHI, P., MUSSINI, T. (Univ. Milan, Dept. Phys. Chem. and Electrochem., Via Golgi 19, I-20133, Milano Italy) Redetermination of the standard potential of the mercury (I) sulphate electrode in aqueous solutions at temperatures from 283 to 343 K *J. Chem. Thermodyn.* 20/1988/711
- ROTH, N., HALPERIN, A., KATZ, S. (Hebrew Univ. Jerusalem, Racah Inst. Phys., Sch. Appl. Sci. and Technol., IL-91904 Jerusalem Izrael) Thermal stimulated luminescence of  $\text{YBa}_2\text{Cu}_3\text{O}_7$  high- $T_c$  superconductors *Solid State Commun.* 67/1988/105
- ROZINOV, V. G., IZHBOLDINA, L. P., DON-SKIKH, V. I., DOLGUSHIN, G. V., RATOVSKII, G. V. (AA Zhdanov State Univ., Irkutsk USSR) Thermal conversions of phosphorylated N-Vinylphthalamide *Zh. Obshch. Khim. SSSR* 58/1988/942
- RUDZINSKI, W., Zajac, J., Michalek, J. (Marie Curie Sklodowska Univ., Inst. Chem., Dept. Theoret. Chem., Nowotki 12, PL-20031, Ljublin Poland) Investigation of the surface and adsorptive properties of aluminium oxides by measuring excess isotherms and heats of immersion *Acta Chim. Hung* 125/1988/57
- RUSSELL, J. J., SEETULA, J. A., GUTMAN, D. (IIT, Dept. Chem., Chicago IL, 60616 USA) Kinetics and thermochemistry of  $\text{CH}_3$ ,  $\text{C}_2\text{H}_5$  and  $\text{i-C}_3\text{H}_7$ . Study of the equilibrium  $\text{R} + \text{HBr} \rightleftharpoons \text{R-H} + \text{Br}$  *J. Amer. Chem. Soc.* 110/1988/3092
- RUSSELL, J. J., SEETULA, J. A., TIMONEN, R. S., GUTMAN, D., NAVA, D. F. (IIT, Dept. Chem. Chicago IL, 60616 USA) Kinetics and thermochemistry of the  $\text{t-C}_4\text{H}_9$  radical. Study of the equilibrium  $\text{t-C}_4\text{H}_9 + \text{HBr} \rightleftharpoons \text{i-C}_4\text{H}_9 + \text{Br}$  *J. Amer. Chem. Soc.* 110/1988/3084
- SAITO, A., TANAKA, R. (Osaka City Univ. Fac. Sci. Dept. Chem., Sumiyoshi Ku, Osaka 558 Japan) Excess volumes and heat capacities of binary mixtures formed from cyclohexane, hexane, and heptane at 298.15 K *J. Chem. Thermodyn.* 20/1988/859

- SCHABERT, M., PAUSEWANG, G. (Univ. Tubingen, Inst. Anorgan. Chem. 1, Morgenstelle 18, D-7400 Tubingen 1 Fed. Rep. Ger.) Thermal decomposition of  $K_2Ti(O_2)F_4 \cdot H_2O$  by high pressure. High pressure synthesis of  $K_2TiOF_4 \cdot H_2O$  and  $K_2TiOF_4$ . *Z. Anorg. Allg. Chem.* 559/1988/143
- SCHOOT, P. P. A. M., LEERMAKERS, F. A. M. Comment on "thermodynamics of the separation of biomaterials in two-phase aqueous polymer systems: effect of the phase forming polymers" *Macromolecules* 21/1988/1876
- SCHWARZ, F. P., KIRCHHOFF, W. H. (NBS, Div. Chem. Thermodynam., Gaithersburg, MD 20899 USA) Biological thermodynamic data for the calibration of differential scanning calorimeters: heat capacity data on the unfolding transition of ribonuclease A in solution *Thermochim. Acta* 128/1988/267
- SEARLE, G. F. W., TAMKIVI, R., VAN HOEK, A., SCHUAFSMA, T. J. (Agr. Univ. Wageningen, Dept. Molec. Phys. De Dreijen 11, 6703 BC Wageningen, Netherlands) Temperature dependence of antennae chlorophyll fluorescence kinetics in photosystem. I. reaction centre protein *J. Chem. Soc.* 84/1988/315
- SHARPATAYA, G. A., OZEROVA, Z. P., SKAPLYGIN, I. S., LAZAREV, V. B., ZAKHAROV, A. A. (Ns Kurnakov Gen. and Inorgan. Chem. Inst., Moscow USSR) Heat capacity and phase transition of lanthanum oxocuprate(II) *Zh. Neorg. Khim. SSSR* 33/1988/880
- SHEKHOVTSOVA, L. G., FOMKIN, A. A., BAKAEV, V. A. (Acad. Sci. USSR, Inst. Phys. Chem., Moscow, V-71 USSR) Statistical thermodynamics of the adsorption equilibrium for zeolites in the cell model approximation *Bull. Acad. Sci. USSR* 36/1987/2176
- SHEN, W., WILLIAMSON, A. G. (Univ. Canterbury, Dept. Chem. and Proc. Engr. Christchurch 1, New Zealand) Enthalpies of mixing of ternary alkane mixtures with branched chain components *Can. J. Chem.* 66/1988/904
- SHIMASAKI, C., MURAI, A., SAKAI, Y., TSUKURIMICHI, E. (Toyama Univ. Fac. Engr. Dept. Ind. Chem. Gofu Ku, Toyama 930 Japan) Thermogravimetric analyser (TG)-gas chromatography(GC) mass spectrometry(MS) and pyrolytic studies of 1,6-bis(2-oxooxazolidin-3-ylcarbonylamino) hexane *Chem. Lett* 6/1988/1009
- SHINGONKULI, V. L., JOG, J. P., NÁDKARNI, V. M. (Natl. Chem. Lab., Polym. Sci. and Engr. Grp., Poona 411008, Maharashtra India) Thermal and crystallization behaviour of engineering polyblends. I. Glass reinforced polyphenylene sulfide with polyethylene terephthalate *J. Appl. Polym. Sci.* 36/1988/335
- SHI, Z. C., AUROUX, A., TAARIT, Y. B. (CNRS, Inst. Rech. Catalyse, 2 Ave A Einstein, F-69626, Villeurbanne France) Calorimetric study of the acidity of Y-zeolites treated with silicon tetrachloride *Can. J. Chem.* 66/1988/1013
- SINGH, K. H. A., SINGH, G., GUPTA, V. D. (Banaras Hindu Univ., Fac. Sci., Dept. Chem., Varanasi 221005 Uttar Pradesh India) Stabilities and thermodynamic functions of the complexes of dimethyltin(IV) ion with some amino acids *Indian J. Chem.* 27/1988/264
- SIVASUBRAMANIAN, G., SIVASAMY, P., VIJAYAKUMAR, C. T., FINK, J. K. (Ayya Nadar Janaki Ammal Coll., Postgrad. Dept. Chem., Sivasaki 626123 India) A study of the thermal degradation behaviour of polyesters based on nexoic anhydride *Polym. Degrad. Stabil.* 21/1988/151
- SLANINA, Z. (Hokkaido Univ. Fac. Sci. Dept. Chem. 2, Nishi 8, Kita 10, Kita Ku, Sapporo Hokkaido 060 Japan) Thermodynamic and kinetic consequences of isomeric interplay *Thermochim. Acta* 128/1988/157
- SMITH, D. W. (Univ. Waikato, Hamilton New Zealand) The thermochemistry of catenation in silanes versus alkanes *J. Chem. Educ.* 65/1988/414
- SQUIN, V. F., RYZHOVE, G. L., LEBEDEV, Y. A. Calorimetric study of the reaction of cellulose with mixtures of nitric acid and methane derivatives *Bull. Acad. Sci. USSR* 36/1987/1947
- SQUIRE, D. W., DAGATA, J. A., HSU, D. S. Y., DULCEY, S. C., LIN, M. C. (Res. Lab., Div. Chem. Kinet. Grp. Code 6105 Washington, D. C. 20375 USA) Thermal reaction of  $F_2$  and  $NF_3$  with Silicon (110) studied by laser ionization mass spectrometry *J. Phys. Chem.* 92/1988/2827

- STASH, A. I., BULGAROVSKAYA, I. V., VOZZ-HERNIKOVA, V. M. (LY Karpov Physicochem. Res. Inst., Moscow USSR) Temperature dependence and anisotropy of the drift electron mobility in crystals of the 9,10-dibromanthracene-pyromellitic anhydride molecular  $\pi$ -complex *Zh. Fis. Khim. SSSR* 62/1988/1400
- STOKS, W., BERGHMANS, H., MOLDENAERS, P., MEWIS, J. (Catholic Univ. Leuven, Polymer Res. Lab., Celestijnenlaan 200F, B-3030 Heverle Belgium) Thermoreversible gelation of solutions of poly(vinyl alcohol) *Brit. Polym. J.* 20/1988/361
- SUBRAMANIAN, P. R., MASSALSKI, T. B., LAUGHLIN, D. E. (Indian Inst. Technol., Dept. Chem., Madras 600036, Tamil Nadu India) Thermodynamic aspects of massive transformation in the Cu-Ga and Cu-Zn systems *Acta Met.* 3/1988/937
- SUDAVTSOVA, V. S., BATALIN, G. I., BONDARENKO, T. P. (TG Shevchenko State Univ., Kiev, Ukraine USSR) Enthalpies of the formation of liquid alloys of the (FeSi-Mn) system *Zh. Fis. Khim. SSSR* 62/1988/1383
- SUKHISHIN, Y. N., KLYUCHNIKOV, V. A., SAPRYKIN, A. E., ZHEVNYAK, E. V. (Kemerovo State Univ., Kemerovo 650043 USSR) Microcalorimeter for electrochemical studies in high-resistance materials *Zh. Fis. Khim. SSSR* 62/1988/1423
- SULADZE, Z. P., KHUTSISHVILI, K. O. (Tbilisi State Univ., Tbilisi, Georgia USSR) Temperature behaviour of the nuclear transverse relaxation time in domain walls at low temperatures *Fiz. Tverd. Tela* 30/1988/1226
- ŠVÁB, L., PĚTROŠ, L., NYNEK, V., SVOBODA, V. (Prague, Inst. Chem. Technol., Dept. Phys. Chem., CS-16628 Prague 6 Czechoslovakia) A calorimeter for the determination of enthalpies of vaporization at high temperatures and pressures *J. Chem. Thermodyn.* 20/1988/545
- SVOBODA, V., VESELY, F., HYNĚK, V., CHIRATÁL, Z. (Prague, Inst. Chem. Technol., Dept. Phys. Chem., CS-16628 Prague 6 Czechoslovakia) Molar heat capacities of 1,1,1-trichloro-trifluoroethane, 1,4-dibromo-2,3-dichloro-hexafluorobutane, and 1,6-dibromo-2,3,5-trichloro-nona-fluorohexane *J. Chem. Thermodyn.* 20/1988/639
- SYNDER, A. P., EICEMAN, G. A., WINDIG, W. (USA, Ctr. Chem. Res. Dev. and Engn., Smccr Rs1, Aberdeen Proving Ground, MD 21010 USA) Influence of pyrolytic techniques on mass spectra of biopolymers with chemical ionization at atmospheric pressure *J. Anal. Appl. Pyrol.* 13/1988/243
- TANIEWSKA-OSINSKA, S., JOŚWIAK, M. (Univ. Lodz, Dept. Phys. Chem., Nowotki 18, PL-91416 Lodz, Poland) Calorimetric investigations of solutions of CsJ, NaBPh<sub>4</sub> and Ph<sub>4</sub> PCl in the HMP-water system at 298.15 K *J. Chem. Soc.* 84/1988/2077
- TASKER, I. R., O'HARE, P. A. G., LEWIS, B. M., JOHNSON, G. K., CORDFUNKE, E. H. P. (Argonne Natl. Lab. Div. Chem. Technol., Argonne, IL-60439 USA) Thermochemistry of uranium compounds. XVI. Calorimetric determination of the standard molar enthalpy of formation at 298.15 K, low-temperature heat capacity, and high-temperature enthalpy increments of UO<sub>2</sub>(OH)<sub>2</sub>·H<sub>2</sub>O (schoepite) *Can. J. Chem.* 66/1988/620
- TAN, L. S., ARNOLDS, F. E. (USAF, Wright Aeronaut Labs., Wright Patterson AFB, OH 45433 USA) Benzocyclobutene in polymer synthesis I. Homopolymerization of bisbenzocyclobutene aromatic imides to form high-temperature resistant thermosetting resins *J. Polym. Sci.* 26/1988/1819
- THEODOROU, D. N. (Univ. Calif. Berkeley, Dept. Chem. Engn., Berkeley CA 94720 USA) Structure and thermodynamics of bulk homopolymer/solid interfaces: A site lattice model approach *Macromolecules* 21/1988/1400
- THEODOROU, D. N. (Univ. Calif. Berkeley, Dept. Chem. Engn., Berkeley CA 94720 USA) Microscopic structure and thermodynamic properties of bulk copolymers and surface active polymers at interfaces. 1. Theory *Macromolecules* 21/1988/1411
- THEODOROU, D. N. (Univ. Calif. Berkeley, Dept. Chem. Engn., Berkeley CA 93720 USA) Micro-

- scopic structure and thermodynamic properties of bulk copolymers and surface-active polymers at interfaces. 2. Results for some representative chain architectures *Macromolecules* 21/1988/1422
- TITOV, E. V., SHURPACH, V. I., BELKINA, G. A. (Acad. Sci. UKSSR, Inst. Phys. Organ. Chem. and Coal Chem., Donetok 340048 Ukraine USSR) Spectral and thermodynamic characteristics of intermolecular hydrogen bonding in individual and mixed solvents *J. Mol. Struct.* 175/1988/307
- TUCKER, P. S., BARLOW, J. W., PAUL, D. R. (Univ. Texas, Div. Math. Comp. Sci. and Syst. Design, San Antonio, TX 78285 USA) Thermal mechanical and morphological analyses of poly(2,6-dimethyl-1,4-phenylene oxide) Styrene-butadiene-styrene blends *Macromolecules* 21/1988/1678
- TRTANI, M. J., MAKSIMOVIČ, Z. B., COMOŘ, J. J. (Boris Kidric Inst. Nucl. Sci., Chem. Dynam. Lab., POB 522, YU-11001, Belgrade, Yugoslavia) Excess molar volumes and enthalpies of (tetranitromethane + propene oxide or hexane or trichloromethane or tetrachloromethane) *J. Chem. Thermodyn.* 20/1988/633
- TSIONSKII, V. M., KRISTHALIK, L. J., KRISUNOV, L. B. (AN Frumkin Inst., Electrochem., Moscow USSR) Temperature dependence of the transfer coefficient: analysis of experimental data *Electrochem. Acta* 33/1988/623
- TSYGANOVA, E. I., ALEKSANDROV, Y. A. Kinetic stability of bis-cyclopentadienyl and diarene compounds of transistor metals in the reaction of thermolysis *Usp. Khim. SSSR* 57/1988/562
- UKRAINTSEVA, E. A., NATSINA, A. A., YAKOVLEV, I. I. (Acad. Sci. USSR, Inst. Inorgan. Chem., Novosibirsk USSR) Temperature dependence of dissociation-enthalpy of Mn(NO<sub>3</sub>)<sub>2</sub>N<sub>2</sub>O<sub>4</sub> formation *Zh. Fiz. Khim. SSSR* 62/1988/813
- UNO, H., TAKATA, T., ENDO, T. (Tokyo Inst. Technol. Resources Utilizat. Res. Lab., 4259 Nagatsuta CHO, Midor Ku, Yokohama, Kanagawa 227 Japan) Thermoinitiated cationic polymerization of styrene with a pyridium salt *Chem. Lett.* 6/1988/935
- J. Thermal Anal.* 35, 1989
- VASILE, C., ODOCHIAN, L., AGHERGHINEI, J. (P. Poni Inst. Macromolec. Chem., R-6600 Jassy Romania) Thermooxidative degradation of polypropylene *J. Polym. Sci. A* 26/1988/1639
- VASILEV, V. P., RUMENSKAYA, L. M., BULYGINA, N. V. (Ivanovo Chem. Technol. Inst., Ivanovo USSR) Thermodynamic characteristics of formation of beta-hydroxyethyl-iminodiacetate nickel(II) complexes in aqueous solutions *Zh. Neorg. Khim.* 33/1988/932
- VRETOENA, N. B., CHERNYAK, B. I., NOVASAD, P. V. (Lvov Polytechn. Inst., Lvov, Ukraine USSR) Thermal stability of octacyanomolybdates(V) of alkali metals *Koord. Khim.* 14/1988/855
- VYAZOVKIN, S. V., LESNIKOVICH, A. I., (Byelorussian State Univ., Inst. Physicochem. Problems, Minsk Belorussia USSR) Estimation of the pre-exponential factor in the isoconversional calculation of effective kinetic parameters *Thermochim. Acta* 128/1988/297
- VYAZOVKIN, S. V., LESNIKOVICH, A. I. (Byelorussian State Univ., Inst. Physicochem. problems, Minsk Belorussia USSR) Interpretation of the dependence of the effective values of kinetic parameters on the degree of transformation *Thermochim. Acta* 128/1988/69
- WASER, SCHOMAKER, V. (6120 Terryhill DR, La Jolla, CA 92037 USA) A note on the thermodynamic inequalities *J. Chem. Educ.* 65/1988/393
- WEGER, M., BENDER, K., KLUTZ, T., SCHWEITZER, D., GROSS, F., HEIDMANN, C. P., PROBST, Ch., ANDRES, K. (Hebrew Univ. Jerusalem, Racah Inst. Phys., Jerusalem Israel) Temperature and pressure dependence of the resistivity of  $\beta$ -(BEDT-TTF)<sub>2</sub>x<sup>+</sup> (x = I<sub>3</sub>, I<sub>2</sub>Au) and  $\alpha_1$ -(BEDT-TTF)<sub>2</sub>I<sub>3</sub> *Synthet. Metal* 25/1988/49
- WEISS, R. G. (Georgetown Univ. Dept. Chem., Washington DC 20057 USA) Thermotropic liquid crystals as reaction media for mechanistic investigations *Tetrahedron* 44/1988/3413
- WENDT, H., VOLLHEIM, Th. (Th. Darmstadt, Inst. Chem. Technol., D-6100 Darmstadt Fed. Rep. Ger.) Molecular thermodynamics of



evaporation of salt melts containing aluminium chloride. III.  $\text{FeCl}_3/\text{AlCl}_3$  and  $\text{FeCl}_2/\text{AlCl}_3$  melts *Z. Phys. Chem. Neue Folge* 158/1988/51

WERNER, J., SCHMID-FETZER, R. (Techn. Univ. Clausthal, Zentrum Met., Robert Koch str. 42, D-3392 Clausthal, Zellerfeld Fed. Rep. Ger.) Performance of  $\text{ZrO}_2$  electrolyte cells for coulometric titration at high voltage *Thermochim. Acta* 129/1988/127

WERSTIUK, N. H., BROOK, M. A., HÜSLER, P. (McMaster Univ. Dept. Chem., Hamilton, Ontario, Canada L8S 4M1) Thermolysis of trimethylsilyl esters: an ultraviolet photoelectron spectroscopy study *Can. J. Chem.* 66/1988/1430

WHITE, M. A., PERROTT, A. (Dalhousie Univ. Dept. Chem., Halifax, NS, Canada B3H 4J3) The thermodynamics of orientational disorder in a molecular solid:  $(\text{CH}_3)_3\text{CCHO}$  *Can. J. Chem.* 66/1988/729

WILFONG, D. L., KOTNOUR, K. D. (Three M. Co. Three M Ctr., Corp. Res. Labs., SPACE Res. Lab. St. Paul, MN 55144 USA) Designed experiment for polyethylene crystallization by DSC *Thermochim. Acta* 128/1988/215

WLODARCZAK, F. (Techn. Univ. Szczecin, Dept. Chem., Halifax, NS, Canada B3H 4J3) The PL-71065, Szczecin, Poland) Studies of temperature and atmosphere composition influence on thermal degradation products of polyurethane foam *J. Appl. Polym. Sci.* 36/1988/377

WU, Z., JIANG, D. Z., SEKI, M., YOSOMIYA, R. (Chiba Inst. Technol., Dept. Ind. Chem., 2-17-1 Isudanuma, Narashino, Chiba 275 Japan) Thermosetting mechanism of polyethersulfone *Angew. Macromol. Chem.* 160/1988/141

XI, Z. HAU, W. J., BAYES, K. D. (Univ. Calif. Los Angeles, Dept. Chem. and Biochem., Los Angeles CA 90024 USA) Temperature dependence of the rate constant for the reaction of neopentyl radicals with  $\text{O}_2$  *J. Phys. Chem.* 92/1988/3450

YAKUBOV, T. S. (Acad. Sci. USSR, Inst. Phys. Chem., Moscow V-71 USSR) Thermal equation for the adsorption of a binary gas mixture *Bull. Acad. Sci. USSR* 36/1987/2242

YAKUSH, E. V., GOLOVNYA, R. V., ZHUR-LAVLEVA, J. L. (AN Nesmeyanov Organometal, Chem. Inst., Moscow USSR) Calculated thermodynamic absorption characteristics of alkylthiazoles based on their retention parameters on columns with polar immobile phases and taking into account deviations of the energy contribution from the principle of additivity *J. Anal. Chem. USSR* 42/1987/1762

YAN, Y. X., CHENG, L. T., NELSON, K. A. (Mit. Dept. Phys. Cambridge, MA 02139 USA) The temperature-dependent distribution of relaxation times in glycerol: Tune-domain light scattering study of acoustic and Mountain-mode behaviour in the  $20\text{MHz}_2$ - $3\text{GHz}_2$  frequency range. *J. Chem. Phys.* 88/1988/6477

YUAN, J. H., XIA, H. Y., XIN, X. Q., DAI, A. B., ZHANG, Y. C. (Nanjing Univ., Coordinat. Chem. Res. Inst., Nanjing R. China) Studies on thermal stabilities of coordination compounds by gas chromatography. 20. The solid state reaction of sodium nitrate and ferric oxalate in hydrogen atmosphere *Acta. Chim. Sin.* 48/1988/223

ZAICHIKOVA, T. V., TOROPOV, V. V., PARENENYUK, E. V., KRESTOV, G. A. (Acad. Sci. USSR, Inst. Anhydrous Solut. Chem., Moscow V-71 USSR) Thermodynamic study of tricomponent systems. I. Water-ethanediol-formamide system *Zh. Fis. Khim. SSSR* 62/1988/1419

ZAKHAROV, A. N., FETEKUA, K. Kh. V., ROMANOVSKII, B. U. (MV Lomonosov State Univ., Fac. Chem. Moscow 11722 USSR) Temperature programmed reactions in zeolites. I. The decomposition of  $\text{Fe}(\text{CO})_5$  *Kinet. Catal.-Engl. Tr.* 28/1987/1076

ZAYED, M. A., NOUR EI-DIEN, F. A. (Univ. Cairo, Fac. Sci., Dept. Chem., Giza Egypt) Comparative study of the redox reactions between thermal analysis and thermodynamic calculations from kinetic data *Thermochim. Acta* 128/1988/105

ZBOROVSKI, A. G., PETROV, Y. P. (Acad. Sci. USSR, Inst. Chem. Phys., Moscow V-71 USSR) Silane thermolysis in shock waves *Khim. Fiz.* 6/1987/677

ZHANG, Z. Y., YANG, M. L. (Northwestern Univ., Thermochem. Lab., Xian, Peoples R.

- China) Thermodynamic properties and phase transition of alkylammonium tetrachlorometallates(II) between 280 K and 500 K. 2. Dodecyl-ammonium tetrachlorozincate(II) *Acta Chim. Sin.* 48/1988/281
- ZHDANOV, K. R., RAKHMENKULOV, F. S., YUZHELEVSKI, Y. I. (Acad. Sci. USSR, Inst. Inorg. Chem., Novosibirsk USSR) Quasiparticle current-stabilized thermal resistive domains *Fiz. Tverd. Tela* 30/1988/1119
- ZHOU, L. X., CHEN, S. X., ZHENG, L. B. (Acad. Sinica Dalian Inst. Chem. Phys., Dalian, Peoples R. China) Thermochemical study on H<sub>2</sub>O/NaY-zeolite adsorption system *Acta Chim. Sin.* 46/1988/212
- ZHOU, B., KANO, K., HASHIMOTO, S. (Doshisha Univ., Fac. Sci., Dept. Appl. Chem., Kamikyo Ku, Kyoto 602 Japan) Thermal and photochemical reactions of 10-methyl-9-phenylacridinium chloride in alcohols *Bull. Chem. Soc. Jpn.* 61/1988/1633