

Bibliography Section

- ADACHI, G. Y., SHIBATA, Y., UENO, K., SHIOKAWA, J. (Osaka Univ., Fac. Engn., Dept. Appl. Chem., Suita, 565 Osaka, Japan): Heats of the tetragonalcubic transformation in rare earth dicarbides and mixed rare earth dicarbide solid solutions. *J. Inorg. Nucl. Chem.* 38 (1976) 1023
- ADEDEJI, F. A., CONNOR, J. A., SKINNER, H. A., GALYER, L., WILKINSON, G. (c/o J. A. Connor, Univ. Manchester, Dept. Chem., Manchester, M13 9PL England): Heat of formation of pentamethyltantalum and hexamethyltungsten. *J. Chem. Soc. Chem. Comm.* (1976) 159
- AGUADO BOMBIN, R. M., NEAL, W. E. J. (Univ. Aston, Phys. Dept., Birmingham, B4 7ET, England): Correlation between critical temperature and other electrical properties for thin tantalum films. *Appl. Phys. Lett.* 28 (1976) 410
- AHRLAND, S., AVSAR, E. (Univ. Lund, Chem. Ctr., S-22007 Lund, Sweden): Thermodynamics of metal complex formation in aqueous solution. XI. Equilibrium and enthalpy measurements on the mercury(II) azide system. *Acta Chem. Scand. A* 30 (1976) 15
- ALEKSANDROV, V. V., CHERNYI, A. V. (A. M. Gorkii State Univ., Kharkov, UkrSSR): Thermodynamic properties of sodium chloride in mixed isodielectric solvents, as methanol-nitromethane. *Zh. Fiz. Khim.* 50 (1976) 516 (In Russian)
- ALLAKHVERDOV, G. R., STEPIN, B. D.: Relation of co-crystallization coefficients to thermal properties of individual substances. *Zh. Fiz. Khim.* 50 (1976) 363 (In Russian)
- ALLEN, G., HOLMES, P., WALSH, D. J. (Imperial Coll., Dept. Chem. Engn. and Chem. Technol., London, SW7 2B 7, England): Extension of Everett and Penney's measurements of the thermodynamics of the system benzene + biphenyl at 288.1 K. *J. Chem. Soc. Faraday Trans. I.* 72 (1976) 534
- ALT, H. G., DI SANZO, F. P., RAUSCH, M. D., UDEN, P. C. (Univ. Massachusetts, Dept. Chem., Amherst, Mass., 01002, USA): Automated thermal degradation studies on solid σ organotransition metal complexes: dimethyl-titanocene, - zirconocene and -hafnocene. *J. Organometall. Chem.* 107 (1976) 257
- AMITIN, E. B., LEBEDEVA, E. G., PAUKOV, I. E. (Acad. Sci. USSR, Inorg. Chem. Inst., Novosibirsk, USSR): Specific heat of water at high pressure near the crystallization point. *Fiz. Tverd. Tela* 18 (1976) 614 (In Russian)
- AMMANN, C. L., DOHERTY, J. E., NESSLER, C. G. (Pratt and Whitney Aircraft, Mat. Engr. and Res. Lab. Middletown, Conn., 06457 USA): The thermal fatigue behavior of hot pressed silicon nitride. *Mater. Sci. Eng.* 22 (1976) 15
- ANDERSSON, P., BÄCKSTRÖM, G. (Chalmers Univ. Technol., Dept. Org. Chem., S-40220 Gothenburg, Sweden): Thermal conductivity of solids under pressure by the transient hot wire method. *Rev. Sci. Instr.* 47 (1976) 205
- ANDRONOV, V. M., PETCHENKO, A. M., STARTSEV, V. I. (A. M. Gorkii State Univ., Kharkov, UkrSSR): Temperature dependence of the dislocation drag constant in potassium chloride at temperatures from 77 to 413 K. *Sov. Phys. Acoust. transl. Akustich. Zh.* 21 (1975) 314

- ANSEAU, M. R., BILOQUE, J. P., FIERENS, P. (Univ. Etat Mons, Inst. Natl. Interuniv. Silicates Sols et Mat., Serv. Sci. Mat., 7000 Mons, Belgium): Some studies on the thermal solid state stability of zircon. *J. Mater. Sci.* 11 (1976) 578
- ARKO, A. J., CRABTREE, G., KETTERSON, J. B., MUELLER, F. M., WALCH, P. F., WINDMILLER, L. R., FISK, Z., HOYT, R. F., MATA, A. C., VISWANATHAN, R., ELLIS, D. E., FREEMAN, A. J., RATH, J. (Argonne Natl. Lab., Argonne, Ill., 60439 USA): Large electron - phonon interaction but low-temperature superconductivity in LaB_6 . *Int. J. Quantum Chem.* (1975) 569
- ARNEK, R., POCEVA, D. (Roy. Inst. Technol., Dept. Inorg. Chem., Stockholm, Sweden): A calorimetric investigation of bromo- and iodo-complexes of mercury(II) in dimethyl sulfoxide. *Acta Chem. Scand. A* 30 (1976) 59
- ARNERI, G., SAUER, J. A. (Rutgers Univ., New Brunswick, N.J. 08903, USA): Study of overlapping transitions in polymers by combined differential scanning calorimetry and thermal optical analysis methods. *Thermochim. Acta* 15 (1976) 29
- ARNETT, E. M., PETRO, C. (Univ. Pittsburgh, Dept. Chem., Pittsburgh, Pa., 15260, USA): Heats of alkylation of substituted pyridines. A comparison of carbon basicity, proton affinity and nucleophilicity. *J. Amer. Chem. Soc.* 98 (1976) 1468
- ASANO, H., ABE, Y., HIRABAYASHI, M. (Tohoku Univ., Inst. Iron Steel and other Metals, Sendai 980, Japan): A calorimetric study of the phase transformation of vanadium hydrides $\text{VH}_{0.06}$ - $\text{VH}_{0.77}$. *Acta Met.* 24 (1976) 95
- ASHRAF, M. (Makerere Univ., Dept. Chem., POB 7062, Kampala, Uganda): Thermolysis of the sodium salt of tricarbonyl-(acetophenone)chromium-p-tosylhydrazone. *Can. J. Chem.* 54 (1976) 448
- AZOKPOTA, C., CALVARIN, G., POMMIER, C. (Ctr. Sci. and Polytech., Lab. Chim. Phys., CNRS, 93206 St. Denis, France): Heat capacity of molecular compounds with order-disorder transition: nickelocene, $\text{Ni}(\text{C}_5\text{H}_5)_2$, and ferrocene $\text{Fe}(\text{C}_5\text{H}_5)_2$. *J. Chem. Thermodyn.* 8 (1976) 283
- BALL, M. C. (Loughborough Univ. Technol., Dept. Chem., Loughborough LE11 3TU, Leicestershire, England): Temperature variation of the mechanism of thermal decomposition of dioxygencarbonyl chlorobis(triphenylphosphine)iridium(I). *Thermochim. Acta* 14 (1976) 368
- BAMFIELD, H. A., BROOK, P. R., HUNT, K. (c/o P. R. Brook, Univ. Leeds, Dept. Org. Chem., Leeds LS2 9JT, England): Thermal rearrangement of a 2-benzylidenecyclobutanone: a suprafacial [1, 3] shift with inversion. *J. Chem. Soc. Chem. Comm.* (1976) 146
- BARENDsz, A. W., MOOJ, CH. H., WERNER, M. A. (TNO, Natl. Def. Res. Org., Chem. Lab., Rijswijk, Netherlands): A heating rate controller for accelerated storage tests. *J. Phys. E. Sci. Instr.* 9 (1976) 129
- BAROOAH, J. T., LONG, V. D. (Imperial Coll., Dept. Chem. Engr. and Chem. Technol., London SW7, England): Rates of thermal decomposition of some carbonaceous materials in a fluidized bed. *Fuel* 55 (1976) 116
- BARRES, M., LESGARDS, G., DUBES, J. P., TACHOIRE, H. (Univ. Provence, Lab. Thermochim., Pl. Victor Hugo, 13331 Marseille, France): Étude des complexes mixtes EDTA mercurate(II)-halogénure. Détermination des grandeurs thermodynamiques de formation par titrage microcalorimétrique. *Rev. Chim. Min.* 12 (1975) 527
- BATALIN, G. I., BELOBORODOVA, E. A., MINENKO, N. N., STUKALO, V. A., CHERNENKO, V. Y. (T. G. Shevchenko State Univ., Kiev, UkrSSR): Thermodynamics of liquid alloys of germanium with indium. *Zh. Fiz. Khim.* 50 (1976) 360 (In Russian)
- BAUR, H. (BASF A.G, Mess- und Prüflab., D-6700 Ludwigshafen, GFR): Wärmekapazität einer Mischung von rotationsisomeren Kettenmolekülen im Gleichgewicht. *Colloid. Polym. Sci.* 254 (1976) 217
- BAYER, G., WIEDEMANN, H. G., (ETH Zürich, Inst. Kristallographie und Petrographie, 8006 Zürich, Switzerland): Bildung und thermische Stabilität von Rhodium-oxiden. *Thermochim. Acta* 15 (1976) 213
- BENSON, D. A., OUELLETTE, A. L. (Sandia Labs., Div. Shock Response Solids 5167, Albuquerque, N.M., 87115 USA): Fast rise-time calorimeter for relativistic electron beam diagnostics. *Rev. Sci. Instrum.* 47 (1976) 291

- BERLIN, A. A., MASLYUKOV, A. P., BELOVA, L. I., GERASIMOV, B. G. (M. V. Lomonosov Fine Chem. Technol. Inst., Moscow, USSR): Synthesis and investigation of the thermal-oxidative degradation of polystyrene-polyazophenylene copolymers. *Vysokomol. Soedin. B* 18 (1976) 114 (In Russian)
- BERNDT, H. J., BOSSMANN, A. (Textilforsch. Krefeld, D-4150 Krefeld, GFR): Thermal analysis of heat set poly(ethylene terephthalate) fibres. *Polymer* 17 (1976) 241
- BERRY, G. C. (Carnegie Mellon Univ., Dept. Chem., Pittsburgh, Pa., 15213 USA): Thermal-mechanical studies on a heterocyclic polymer (BBB). I. Tensile creep and recovery. *J. Polym. Sci. Polym. Phys. Ed.* 14 (1976) 451
- BIRO, A. C., BLAHA, H., BREITENBACH, J. W. (c/o J. W. Breitenbach, Univ. Wien, Inst. Phys. und Anorg. Chem., Währinger Str. 42, A-1090 Wien, Austria): Thermo-gravimetrie von Styrol-Chloranilcopolymeren. *Monatsh. Chem.* 107 (1976) 247
- BLEAY, J. A., OLDHAM, D. J., BLACKBURN, D. A. (Univ. Strathclyde, Dept. Pure and Appl. Chem., Glasgow, Scotland): The use of electromigration and thermomigration to produce non-equilibrium vacancy conditions in alpha-brass. *Acta Met.* 24 (1976) 81
- BOGDANOV, G. A., KOMAROVA, N. V., GARKUSHENKO, T. L., FROLOV, V. I. (Moscow Textile Inst., Moscow, USSR): Thermal decomposition of thulium peroxides. *Zh. Neorg. Khim.* 51 (1976) 570 (In Russian)
- BOLDOG, I. J., GOLUB, A. M., KALINICHENKO, A. M. (T. G. Shevchenko State Univ., Kiev, UkrSSR): The structure and thermal decomposition of tarankite and its analogs. *Zh. Neorg. Khim.* 21 (1976) 354 (In Russian)
- BONNER, O. D., CERUTTI, P. J. (Univ. S. Carolina, Dept. Chem., Columbia, S.C. 29209 USA): The partial molar heat capacities of some solutes in water and deuterium oxide. *J. Chem. Thermodyn.* 8 (1976) 105
- BOOM, R., DE BOER, F. R., MIEDEMA, A. R. (Hoogovens IJmuiden BV, Res. Labs., IJmuiden, Netherlands): On the heat of mixing of liquid alloys-I. *J. Less-Common Metals* 45 (1976) 237
- BORISOVA, G. M., SAKHAROVA, Y. G.: Mechanism for thermal decomposition of terbium, dysprosium, holmium and erbium thiocarbamide complexes. *Zh. Obshch. Khim.* 46 (1976) 452 (In Russian)
- BRADLEY, J. N., WEST, K. O. (Univ. Essex, Dept. Chem. Colchester, Essex, England): Single-pulse shock tube studies of hydrocarbon pyrolysis. 5. Pyrolysis of neopentane. *J. Chem. Soc. Faraday Trans. I.* 72 (1976) 8
- BRITO, F., ASCANIO, J. (Univ. Cent. Venezuela, Fac. Ciencias, Escuela Quim., Lab. Equilibrios Disolución, Caracas, Venezuela): Thermochemistry of reactions in solution. 2. Hydrolysis of VO^{2+} ion (25°C , 3M KCl). *An. Quim.* 72 (1976) 131 (In Spanish)
- BROWN, D. L. S., CONNOR, J. A., LEUNG, M. L., PAZ-ANDRADE, M. J., SKINNER, H. A. (Univ. Manchester, Dept. Chem., Manchester, M13 9PL, England): The enthalpies of thermal decomposition of iron-olefin complexes, and the strength of iron-olefin bonds. *J. Organometall. Chem.* 109 (1976) 79
- BRÜLLER, S. O., PÜTZ, D. (Rhein. Westfal. TH, Inst. Kunststoffverarbeitung, Pont Str. 49, D-5100 Aachen, GFR): Einfache temperatur-und spannungsabhängige Bestimmungsgleichungen für das Kriechen von Polymeren. *Rheol. Acta* 15 (1976) 143
- BÜRGER, H., KLUESS, C. (Gesamt Hsch. Wuppertal, FB 9 Anorg. Chem., 56 Wuppertal, GFR): Titan-Stickstoff-Verbindungen. XXIV. Benzyl und Trimethylsilylmethyl-titanamide: Darstellung, Eigenschaften und Thermolyse. *J. Organometall. Chem.* 108 (1976) 69
- BURMISTEROVA, P., VOLOZHANINA, E. G.: Differential-thermal analysis and electric conductivity methods for studying solid-phase conversions in the $\text{Li}_2\text{CO}_3\text{-Na}_2\text{CO}_3$ system. *Zh. Neorg. Khim.* 21 (1976) 533 (In Russian)
- BUTLER, R. N., O'REGAN, C. B., MOYNIHAN, P. (Univ. Coll. Galway, Chem. Dept., Galway, Ireland): Sequential nature of the thermal reaction of stearic acid with some 1,2-diamines. *J. Chem. Soc. Perkin Trans. I.* (1976) 386
- BYSTRAI, G. P., DESYATNIK, V. N., ZLOKAZOV, V. A. (S. M. Kirov Polytech. Inst., Sverdlovsk, USSR): Heat conductivity of uranium tetrachloride melts with rubidium and cesium chlorides. *Zh. Fiz. Khim.* 50 (1976) 353 (In Russian)

- CARLING, R. W., WESTRUM, E. F. (c/o E. F. Westrum, Univ. Michigan, Dept. Chem., Ann Arbor, Mich., 48104 USA): Thermodynamics of the monohydrogen difluorides. V. Melting thermodynamics of NH_4HF_2 . *J. Chem. Thermodyn.* 8 (1976) 269
- CARR, P. W., SMITH, E. B., BETSO, S. R., CALLOCOTT, R. H. (Univ. Georgia, Dept. Chem., Athens, Ga., 30602 USA): A thermochemical investigation of the binding of 12-phosphotungstic acid and chloride ion to bovine serum albumin. *Thermochim. Acta* 15 (1976) 105
- CARRAHER, CH. E. (Univ. S. Dakota, Dept. Chem., Vermillion, S.D., 57069 USA): Synthesis and thermal characterization of hafnium polythioethers. *Polymer* 17 (1976) 231
- CAWTHORN, R. G. (Univ. Witwatersrand, Dept. Geol., San Smuts Ave., Johannesburg, South Africa): Melting relations in part of the system $\text{CaO}-\text{MgO}-\text{Al}_2\text{O}_3-\text{SiO}_2-\text{Na}_2\text{O}-\text{H}_2\text{O}$ under 5 kb pressure. *J. Petrol.* 17 (1976) 44
- CHAIGNEAU, M., LE MOAN, G. (CNRS, Serv. Anal. Gaz, 4 Ave. Observatoire, F-75270 Paris, France): Analyse et évolution des composés formés par pyrolyse et combustion de la laine. *Analisis* 4 (1976) 28
- CHAURASIA, P. B. L., CHAUDHARY, D. R., BHANDARI, R. C. (Univ. Rajasthan, Dept. Phys., Jaipur 4, India): Thermal conductivity of suspension and emulsion materials. *J. Appl. Chem. Biotechnol.* 25 (1975) 881
- CHESNOKOVA, R. V., ALEKSEEV, A. M., BONDAREVA, A. A., ZHIVOTENKO, N. N., SHCHIBRYA, G. G., LYUDKOVSKAYA, B. G., TELESHOVA, A. S., BEREZINA, Y. I.: Mechanism of thermal decomposition of copper, zinc and nickel chromates. *Zh. Neorg. Khim.* 21 (1976) 36 (In Russian)
- CHIHARA, H., INABA, A. (Osaka Univ., Fac. Sci. Toyonaka, 560 Japan): Heat capacity of solid HCl near 120 K. *J. Phys. Soc. Jap.* 40 (1976) 597
- CHO, S. A. (Inst. Venezolano Invest. Cient., Dept. Met. and Mat. Sci., Caracas, Venezuela): Correlation between the entropies of fusion and of allotropic transitions of metals. *J. Solid State Chem.* 16 (1976) 355
- CHOW, T. S. (Xerox Corp., J. C. Wilson Ctr. Technol., Rochester, N.Y., 14644 USA): Thermal warping of layered composites. *J. Appl. Phys.* 47 (1976) 1351
- CIAVATTA, L., GRIMALDI, M., PALOMBARI, R. (Univ. Naples, Ist. Chim., Naples, Italy): A thermochemical study on the hydrolysis of mercury(II) chloride and mercury(II) thiocyanate complexes. *J. Inorg. Nucl. Chem.* 38 (1976) 823
- CLERC, H., TUFEU, R., LYAUDET, G., VODAR, B. (Ctr. Etud. Bruyères Chatel, Bp. 61, 92120 Montrouge, France): Thermal conductivity of ^4He and ^3He up to 800 bar, in the range 25 to 100 °C. *Compt. Rend. Ser. B* 282 (1976) 51 (In French)
- COATES, D., GRAY, G. W. (Univ. Hull, Dept. Chem., Hull, HU6 7RX, England): The effect of the terminal trifluoromethyl group on nematic liquid crystal thermal stability. *J. Chem. Soc. Perkin Trans. II* (1976) 300
- COHEN, L. M., SHORT, J. M., OPPENHEIM, A. K. (Univ. Calif., Berkeley, Calif., 94720 USA): Computational technique for evaluation of dynamic effects of exothermic reactions. *Combust. Flame* 24 (1975) 319
- CONNELLY, T. M., GILLHAM, J. K. (Cambridge Univ., Churchill Coll., Cambridge, England): Polyphosphazenes: thermomechanical transitions. *J. Appl. Polym. Sci.* 20 (1976) 473
- CORDFUNKE, E. H. P., OWELTJES, W., PRINS, G. (Reactor Centrum Nederland, Petten, Netherlands): Standard enthalpies of formation of uranium compounds. II. UO_2Cl_2 and UCl_4 . *J. Chem. Thermodyn.* 8 (1976) 241
- COUDURIER, G., GALLEZOT, P., PRALIAUD, H., PRIMET, M., IMELIK, B. (CNRS, Inst. Rech. Catalyse, 39 Blvd. 11 Novembre 1918, 69626 Villeurbanne, France): Étude de l'adsorption et de la décomposition thermique des métaux carbonyles $\text{Mo}(\text{CO})_6$, $\text{Re}_2(\text{CO})_{10}$ et $\text{Ru}_3(\text{CO})_{12}$ sur des zéolithes de type Y. *Compt. Rend. Ser. C* 282 (1976) 311
- COUTURES, J., ROUANET, A., VERGES, R., FOEX, M. (CNRS, Ultra Refractaires Lab., 66120 Odeillo, Fontromeu, France): Etude à haute température des systèmes formés par le sesquioxide de lanthane et les sesquioxides de lanthanides I. Diagrammes de phases ($1400^\circ\text{C} < T < T$ liquide). *J. Solid State Chem.* 17 (1976) 171

- COWIE, J. M. G., HENSHALL, S. A. E. (Univ. Stirling, Dept. Chem., Stirling FK9 4LA, Scotland): The influence of chain length and branching on the glass transition temperature of some polyglucosans. *Eur. Polym. J.* 12 (1976) 215
- CRAWFORD, C. M. (Mississippi State Univ., Dept. Chem., State Coll., Miss., 39762 USA): What does a calorimeter measure. *Texas J. Sci.* 27 (1976) 235
- CUCCURU, A., SODI, F. (Lab. Radioprotezione, Camen, 56010 San Piero a Grado, Pisa, Italy): Thermal stability in air of gamma irradiated fluoroelastomers. *Thermochim. Acta* 15 (1976) 253
- DAVIDSON, P. J., LAPPERT, M. F., PEARCE, R. (c/o M. F. Lappert, Univ. Sussex, Sch. Molec. Sci., Brighton, BN1 9QJ): Metal σ -hydrocarbyls MR_n stoichiometry, structures, stabilities, and thermal decomposition pathways. *Chem. Rev.* 76 (1976) 219
- DAVIES, R. H., FINCH, A., GARDNER, P. J., HAMEED, A., STEPHENS, M. (Roy. Holloway Coll., Bourne Lab., Dept. Chem., Englefield Green, Surrey, England): The standard enthalpies of hydrolysis and formation of tricyanophosphine. *J. Chem. Soc. Dalton Trans.* (1976) 556
- DEGUCHI, K., NAKAMURA, E. (Hiroshima Univ., Fac. Sci., Hiroshima 730, Japan): Effect of heat-treatment on dielectric properties of $Ca_2Sr(C_2H_5CO_2)_6$. *J. Phys. Soc. Jap.* 40 (1976) 478
- DELLIEN, I., MCCURDY, K. G., HEPLER, L. G. (Univ. Lund, Chem. Ctr., Phys. Chem. 1, Lund, Sweden): Enthalpies of formation of lead chromate, lead molybdate, and lead tungstate, and the entropy of aqueous tungstate ion. *J. Chem. Thermodyn.* (1976) 203
- DEROUANE, E. G., GABELICA, Z., HUBIN, R. (Fac. Univ. Namur, Lab. Catalyse, 61 Rue Bruxelles, B-5000 Namur, Belgium): Thermolyse de mélanges de chromates et d'oxalates de métaux alcalino-terreux. I. Composés du baryum et du strontium. *Thermochim. Acta* 14 (1976) 315
- DEROUANE, E. G., GABELICA, Z., HUBIN, R. (Fac. Univ. Namur, Lab. Catalyse, 61 Rue Bruxelles, B-5000 Namur, Belgium): Thermolyse de mélanges de chromates et d'oxalates de métaux alcalino-terreux. II. Composés du magnésium. *Thermochim. Acta* 14 (1976) 327
- DERVAN, P. B., UYEHARA, T. (Caltech, Crellin Labs. Chem., Pasadena, Calif., 91125 USA): Thermal decomposition of cis- and trans- 3,4- and 3,6-dimethyl-3,4,5,6-tetrahydropyridazines. Evidence against the hot diradical postulate for azo decompositions. *J. Amer. Chem. Soc.* 98 (1976) 1262
- DESYATNIK, V. N., DUBININ, B. V., KURBATOV, N. N., KOROLKOV, V. A., RASPOPIN, S. P.: Thermography of ternary systems, having sodium chloride, potassium chloride, uranium trichloride and thorium tetrafluoride. *Zh. Neorg. Khim.* 21 (1976) 575 (In Russian)
- DHILLON, M. S., SAT PAL SINGH (Guru Nanak Univ., Dept. Chem., Amritsar, Punjab, India): Solid + liquid phase diagrams of mixtures of phenylenediamines with naphthols. *Thermochim. Acta* 15 (1976) 248
- DIETRICH, M., GEY, W. (Univ. Karlsruhe, Inst. Exptl. Kernphys., Karlsruhe, GFR): Pressure dependence of the superconducting transition temperature of Th_4H_{15} . *Rev. Phys. Chem. Jap.* (1975) 287
- DONDUR, V., VUČELIĆ, V., VUČELIĆ, D., ŠUŠIĆ, M. (Inst. Chem. Technol. and Met., Belgrade, Yugoslavia): An analysis of elementary processes of water desorption from zeolites of type A. II. Zeolites with bivalent counterions. *Thermochim. Acta* 14 (1976) 349
- DOYLE, W. P., PRYDE, I. J. (Univ. Edinburgh, Dept. Chem., Edinburgh, Scotland): The thermal decomposition of the chromates(V) of several lanthanides. *J. Inorg. Nucl. Chem.* 38 (1976) 733
- DUBEY, K. S. (Univ. Basrah, Coll. Sci., Dept. Phys., Basrah, Iraq): Contribution to the thermal conductivity due to the correction term in the frame of the generalized callaway integral: application to Ge. *J. Phys.* 37 (1976) 267
- DUBEY, K. S. (Univ. Basrah, Coll. Sci., Dept. Phys., Basrah, Iraq): Lattice thermal conductivity of Mg_2Ge in the temperature range 4–800 K. *Phys. Rev. B* 13 (1976) 1836
- EAST, D. S. R., McMURRY, T. B. H., TALEKAR, R. R. (c/o T. B. H. McMurry,

- Trinity Coll., Chem. Dept., Dublin 2, Ireland): The chemistry of santonene. XI. Products of photolysis of 4-hydroxy-santonene and its 4-epimer, their structures, and some pyrolysis studies. *J. Chem. Soc. Perkin Trans. I.* (1976) 433
- EISENHUTH, L., HOPF, H. (c/o H. Hopf, Univ. Würzburg, Inst. Org. Chem., D-8700 Würzburg, GFR): Thermische Isomerisierungen. VIII. Die Pyrolyse von Trans-1-Äthynyl-2-Vinylcyclobutan. *Tetrahedron Lett.* 16 (1976) 1265
- ELIAN, M., BANCIU, M., STĂNESCU, L., CIORĂNESCU, E. (Ctr. Org. Chem., Bucharest, 15 Romania): Thermal and photochemical rearrangements of dibenzobullvalene and related dibenzo - $(CH)_{10}$ hydrocarbons. *Rev. Roum. Chim.* 51 (1976) 89
- ENGEL, P. S. (Rice Univ., Dept. Chem., Houston, Tex. 77001 USA): Thermochemistry of cyclic 1,2-dialkyl-diazenes (azo compounds). The effect of strain energy on thermal lability. *J. Am. Chem. Soc.* 98 (1976) 1972
- FEAKINS, D., ALLAN, C. T. (Univ. College Belfield, Dept. Chem., Dublin, 4 Ireland): Studies in ion solvation in non-aqueous solvents and their aqueous mixtures. 18. Enthalpies of transfer of alkali-metal halides from water to dioxan + water mixtures; structural effects and comparison with large ions. *J. Chem. Soc. Faraday Trans. I.* 72 (1976) 314
- FEDOROV, V. A., ROBOV, A. M., ISAEV, I. D. (Siberian Technol. Inst., Krasnoyarsk, USSR): Calorimetry of interaction of tallo-ions with nitrate-ions and sulfate-ions in aqueous solutions. *Zh. Fiz. Khim.* 40 (1975) 3115 (In Russian)
- FEDOROV, V. A., SHISHIN, L. P. (Siberian Technol. Inst., Krasnoyarsk, USSR): Thermodynamic constants of formation in bicyclic halide complexes of lead of Pb_2HAl^{3+} composition. *Zh. Fiz. Khim.* 50 (1976) 356 (In Russian)
- FELDER, W., FONTIJN, A. (Aerochem. Res. Labs. Inc., Princeton, N. J., 08540 USA): High temperature fast-flow reactor kinetic studies. The AlO/O_2 reaction near 1400 K. *J. Chem. Phys.* 64 (1976) 1977
- FERGUSON, J., PETROVIC, Z. (Univ. Strathclyde, Fibre Sci. Dept., Glasgow, G1 1XW Scotland): Thermal stability of segmented polyurethanes. *Eur. Polym. J.* 12 (1976) 177
- FEU, A. (Univ. Autónoma Madrid, Dept. Fis. Fundamental, Madrid, Spain): Thermal demagnetization and the nonlinear reversible loop. *J. Appl. Phys.* 47 (1976) 1608
- FIALA, F., KRÁLÍČEK, J. (Res. and Dev. Inst. Leather Goods Ind., 50129 Hradec Králové, Czechoslovakia): Polymerization of lactams. IX. Thermal degradation of anionic polymerizates of 6-caprolactam. Changes of the number of polymer molecules at the initial stage of the process. *Eur. Polym. J.* 12 (1976) 155
- FIELDS, E. K., MEYERSON, S. (Amoco Chem. Corp., Naperville, Ill., 60540 USA): Thermal and photochemical decomposition of silver carboxylates. *J. Org. Chem.* 41 (1976) 916
- IIFER, R. A., LANNON, J. A. (Frankford Arsenal, Pitman Dunn Lab., Philadelphia, Pa., 19137 USA): Effect of pressure and some lead salts on chemistry of solid propellant combustion. *Combust. Flame* 24 (1975) 369
- FILIP, Z., SEMOTÁN, J., KUTILEK, M. (Justus Liebig Univ., Inst. Microbiol., Giessen, GFR): Thermal and spectrophotometric analysis of some fungal melanins and soil humic compounds. *Geoderma* 15 (1976) 131
- FISCHER, P., RÖHL, P. (Siemens A.G., Forsch Lab., Postfach 325, 8520 Erlangen, (GFR)): Isotherme und thermisch stimuliertes Depolarisation in Polyäthylen. *Colloid Polym. Sci.* 254 (1976) 198
- FLOEROV, I. N. (L. V. Kirenskii Phys. Inst., Krasnoyarsk, USSR): Specific heat of $TiMnCl_3$ in the region of structure phase transitions. *Fiz. Tverd. Tela* 18 (1976) 848 (In Russian)
- FLYNN, J. H., DICKENS, B. (NBS, Inst. Mater. Res., Washington, D.C. 20234 USA): Steady-state parameter-jump methods and relaxation methods in thermogravimetry. *Thermochim. Acta* 15 (1976) 1
- FORTIER, J. L., BENSON, G. C., PICKER, P. (c/o G. C. Benson, Natl. Res. Council Canada, Div. Chem., Ottawa K1A OR6, Ontario, Canada): Heat capacities of some organic liquids determined with the picker

- flow calorimeter. *J. Chem. Thermodyn.* 8 (1976) 289
- FRANKS, F., PEDLEY, M., REID, S. (Unilever Res. Colworth Welwyn, Biosci. Div., Colworth House, Sharnbrook, Bedfordshire, England): Solute interactions in dilute aqueous solutions. 1. Microcalorimetric study of the hydrophobic interaction. *J. Chem. Soc. Faraday Trans. I* 72 (1976) 359
- FUCHS, B., KWALWASSER, W. D., ROSENBLUM, M. (Tel Aviv Univ., Dept. Chem., Tel Aviv, Izrael): Thermal and photochemical decomposition of dihydrooxadiazinones. *Israel J. Chem.* 13 (1975) 107
- FUJISHIRO, I., MI, H., SENOO, M., SATOO, I. (Nagoya Univ., Dept. Mech. Engn., Chikusa, 464 Nagoya, Japan): Noise thermometry under high pressure. *Proc. 4th Int. Conf. High Pressure Kyoto 1974*, 818
- FUWA, A., ANDERSON, R. N., PARLEE, N. A. D. (Stanford Univ., Dept. Appl. Earth Sci., Stanford, Calif., 94305 USA): Thermodynamics of nitride formation in liquid U-Gd-Sn alloys. *High Temp. Sci.* 7 (1975) 249
- GABBAY, S. M., STIVALA, S. S. (Stevens Inst. Technol., Dept. Chem. and Chem. Engn., Hoboken, N.J., 07030 USA): Kinetics of the thermal oxidation of poly(4-methyl-1-pentene). *Polymer* 17 (1976) 137
- GAIDUKOV, Y. P., GOLYAMINA, E. M., DANIOVA, N.P. (Moscow State Univ., Moscow, USSR): Temperature dependence of the magnetoresistance of cadmium and antimony whisker crystals. *JETP Lett. transl. Pisma Zh. Eksp. Teoret. Fiz.* 22 (1976) 107
- GAINES, A. F., YÜRÜM, Y. (Hacettepe Univ., Fac. Chem., Ankara, Turkey): Pyrolysis of deuterated and reduced coals. *Fuel* 55 (1976) 129
- GALLAGHER, P. K., JOHNSON, D. W. (Bell Tel. Labs. Inc., Murray Hill, N.J., 07974 USA): Kinetics of the thermal decomposition of CaCO_3 in CO_2 and some observations on the kinetic compensation effect. *Thermochim. Acta* 14 (1976) 255
- GALLAGHER, P. K., JOHNSON, D. W. (Bell Tel. Labs. Inc., Murray Hill, N.J., 07974 USA): Detection of catalytic oscillations by differential thermal analysis. *Thermochim. Acta* 15 (1976) 238
- GAMBINO, M., BRAS, J. P., AJERSCH, F., ANSARA, I. (Univ. Provence, UER Chim., 13331 Marseille, France): Contribution à l'étude thermodynamique du système bismuth-gallium. *Thermochim. Acta* 14 (1976) 305
- GAMTSEMLIDZE, G. A., DZHAPARIDZE, S. A., TSAAVA, D. I. (Tbilisi State Univ., Tbilisi, GeSSR): Thermomechanical effect in liquid helium. I. *JETP Lett. transl. Pisma Zh. Eksp. Teoret. Fiz.* 22 (1975) 129
- GASPARYAN, K. A., BOROKHOVSKII, V. A., SEVAST'YANOV, L. K., MIRZOEV, R. G., BARANOV, V. G. (Lensoviet Technol. Inst., Leningrad, USSR): Temperature range of melting of polymers. *Vysokomol. Soedin. A* 18 (1976) 549 (In Russian)
- GERSHUNI, S. S., SURIS, A. L., SHORIN, S. N. (Moscow Chem., Machinery Inst., Moscow, USSR): Thermodynamic analysis of carbon-hydrogen homogeneous system at variable parameters. *Zh. Fiz. Khim.* 50 (1976) 334 (In Russian)
- GERVITS, L. L., ZOLOTOVA, N. V., DENISOV, E. T. (Acad. Sci. USSR, Chem. Phys. Inst., Moscow, USSR): Oxidative degradation of polypropylene in the presence of metal dialkyldithiocarbamates. *Vysokomol. Soedin. A* 18 (1976) 408 (In Russian)
- GILBERT, A., WALSH, R. (c/o R. Walsh, Univ. Reading, Dept. Chem., Reading RG6 2AD, England): Thermal decomposition of tricyclo [6,4,0,2^{8,6}] tetradeca-1(8), 4,13-triene. A process involving a series of intramolecular and retro-Diels-Alder reactions. *J. Amer. Chem. Soc.* 98 (1976) 1606
- GILBERT, K. E., BALDWIN, J. E. (c/o J. E. Baldwin, Univ. Oregon, Dept. Chem., Eugene, Oreg., 97403 USA): Four degenerate thermal isomerizations of 1-methylspiro[2.4] hepta-4,6-diene. A test for the Smith mechanism. *J. Amer. Chem. Soc.* 98 (1976) 1593
- GOULD, R. O., LOWE, B. M., MACGILP, N. A. (c/o B. M. Lowe, Univ. Edinburgh, Dept. Chem., W. Mains Rd., Edinburgh, E49 3JJ, Scotland): Thermal properties of sodium metasilicate hydrates. *Thermochim. Acta* 14 (1976) 299
- GRANIER, B., RENARD, R., COUTURES, J. P. (CNRS, Lab. Ultra Refractories, BP 5, 66120 Odeillo, Font Romey, France):

- Thermogravimetric device operating up to 2300 °C under controlled atmospheres. *J. Vac. Sci. Technol. 13* (1976) 560
- GRANZOW, A., CANNELONGO, J. F. (Amer. Cyanamid Co., Div. Chem. Res., Bound Brook, N.J., 08805 USA): The effect of red phosphorus on the flammability of poly(ethylene terephthalate). *J. Appl. Polym. Sci. 20* (1976) 689
- GREENHOW, E. J., SHAFI, A. A. (Univ. London, Chelsea Coll., Chem. Dept., Manresa Rd., London, SW3 6LX, England): The determination of weak acids in aqueous solutions by catalytic thermometric titrmetry. *Talanta 23* (1976) 73
- GUSEINOV, K. D., GYLMANOV, A. A., MIRZOEV, B. M. (V. I. Lenin State Teachers Inst., Baku, AzSSR): Heat conductivity of aromatic hydrocarbons. *Zh. Fiz. Khim. 50* (1976) 212 (In Russian)
- HALPERIN, W. P., ARCHIE, C. N., RASMUSSEN, F. B., ALVESALO, T. A., RICHARDSON, R. C. (Northwestern Univ., Dept., Phys., Evanston, Ill., 60201 USA): Specific heat of normal and superfluid ^3He on the melting curve. *Phys. Rev. B 13* (1976) 2124
- HANDA, Y. P., FENBY, D. V. (Univ. Otago, Dept. Chem., Dunedin, New Zealand): Calorimetric study of the deuterium isotope effect in liquid mixtures. *J. Chim. Phys. 72* (1975) 1235
- HANSEN, L. D., WHITING, L., EATOUGH, D. J., JENSEN, T. E., IZATT, R. M. (c/o D. J. Eatough, Brigham Young Univ., Dept. Chem., Provo, Utah, 84602 USA): Determination of sulfur(IV) and sulfate in aerosols by thermometric methods. *Anal. Chem. 48* (1976) 634
- HENTZE, G. (Bayer A.G., Ing. Abt. Angew. Physik, Leverkusen, GFR): Anomalien bei der Glasumwandlung amorpher Substanzen. *Thermochim. Acta 15* (1976) 139
- HERNDON, J. M., ROWE, M. W., LARSON, E. E., WATSON, D. E. (US Geol. Survey, Fed. Ctr., Denver, Colo., USA): Thermomagnetic analysis of meteorites 3C3 and C4 chondrites. *Earth Planet. Sci. Lett. 29* (1975) 283
- HIRAHO, J., MURAKAMI, T., HATANO, M. (Tohoku Univ., Chem. Res. Inst. Non-aqueous Solut, 2-1-1 Katahira, Sendai 980, Japan): The preparation, infrared spectra and thermal stability in the solid state of nickel(II) complexes with edda-type polyamino carboxylic acids. *Bull. Chem. Soc. Jap. 49* (1976) 147
- HOLDEN, T. M. (Atom Energy Canada Ltd., Chalk River, Ontario, Canada): Temperature dependence of magnetic excitations in Pd_3Fe . *J. Phys. F 6* (1976) 433
- HOPKINS, H. P., BOSTWICK, D., ALEXANDER, C. J. (c/o D. Bostwick, Georgia State Univ., Dept. Chem., Atlanta, Ga., 30303 USA): The thermochemistry of diphenylcyclopropenone. Strain vs. delocalization energy. *J. Amer. Chem. Soc. 98* (1976) 1355
- HORNBØGEN, E., ZUM GAHR, K. H. (Ruhr Univ. Bochum, Inst. Werkstoffe, Bochum GFR): Die Gefüge einer Eisen-Nickel-Aluminium-Legierung nach thermischen und thermomechanischen Behandlungen. *Z. Metallk. 67* (1976) 16
- HOWARD, R. A., WYNNE, A. M., BEAR, J. L., WENDLANDT, W. W. (c/o J. L. Bear, Univ. Houston, Dept. Chem., Houston, Tex., 77004 USA): The thermal decomposition of the dimethyl sulfoxide and pyridine adducts of rhodium(II) acetate, propionate and integrate. *J. Inorg. Nucl. Chem. 38* (1976) 1015
- HUDSON, P. R. W. (Monash Univ., Dept. Phys., Clayton Victoria 3168, Australia): The thermal resistivity of diamond heat-sink bond materials. *J. Phys. D 9* (1976) 225
- IGUCHI, M. (Res. Inst. Polymers and Textiles, 4 Sawatori, Kanagawa 221, Yokohama, Japan): Melting and degradation behavior of needlelike poly(oxymethylene) crystals. *Macromol. Chem. 177* (1976) 549
- IKEDA, H., HATTA, I., TANAKA, M. (Univ. Tokyo, Inst. Solid State Phys., Roppongi, Minato, Tokyo, Japan): Critical heat capacities of two-dimensional ising-like antiferromagnets K_2CoF_4 and Rb_2CoF_4 . *J. Phys. Soc. Jap. 40* (1976) 334
- ISHIBASHI, T., ISHII, T. (Toyobo Co. Ltd., Tsuruga Nylon Plant, Kurehacho, Tsuruga, 914 Fukui, Japan): Studies on the melt spinning of nylon 6. II. Effect of heating the threadline upon orientation and crystallization. *J. Appl. Polym. Sci. 20* (1976) 335
- ISMAIL, M. G. M. U., HIRANO, S., SOMIYA, S. (Tokyo Inst. Technol., Res. Lab. Engrn.

- Mat., Meguro, 152 Tokyo, Japan): Decomposition of ilmenite under hydrothermal condition. *Proc. 4th Int. Conf. High Pressure, Kyoto, 1974*, 190
- ITAGAKI, K., YAZAWA, A. (Tohoku Univ., Res. Inst. Mineral Dressing and Met., Sendai 980, Japan): Heats of mixing in liquid copper or gold binary alloys. *Trans. Jap. Inst. Metals* 16 (1975) 679
- JACOB, K. T. (Univ. Toronto, Dept. Metallurgy and Mater. Sci., Toronto M5S 1A4, Canada): Gibbs free energies of formation of $ZnAl_2O_4$ and $ZnCr_2O_4$. *Thermochim. Acta* 15 (1976) 79
- JAFRI, A. K., MUSTAFA, S., AHMAD, I., KHAWAJA, D. K. (Univ. Mosul, Coll. Sci., Dept. Biol., Mosul, Iraq): The effect of heat treatment on the moisture, volatile matter and calorific content of the depot fats of some freshwater fishes. *Curr. Sci.* 45 (1976) 227
- JAIN, D. V. S., WADI, R. K., SINGH, R. (Panjab Univ., Dept. Chem., Chandigarh, 160014 India): Excess volumes of o-xylene +, m-xylene +, p-xylene +, and ethylbenzene + carbon tetrachloride at 303,15 K. *J. Chem. Thermodyn.* 8 (1976) 259
- JALON, B. (Setaram, Lyon, France): Microthermogravimetry: a new symmetrical microthermoanalyser from -196°C up to 1700°C with combined micro DTA and EGA. *J. Vac. Sci. Technol.* 13 (1976) 560
- JESSE, A. C., VAN BAAR, J. F., STUFKENS, D. J., VRIEZE, K. (c/o K. Vrieze, Univ. Amsterdam, Vant Hoff Inst., Anorg. Chem. Lab., Nieuwe Achtergracht 166, Amsterdam, Netherlands): Thermochemistry of $Pt(PPH_3)_3SO_2$ and the reaction of SO_2 with $IrCl(N_2)(PPH_3)_2$. *Inorg. Chim. Acta* 17 (1976) L13
- JONES, D. N., EDMONDS, A. C. F., KNOX, S. D. (Univ. Sheffield, Chem. Dept., Sheffield S3 7HF, England): Steroidal sulphur compounds. XII. Regiospecific formation of steroidal olefins by thermolysis of sulphonides. *J. Chem. Soc. Perkin Trans. I.* (1976) 459
- JORDAN, J., GRIME, J. K., WAUGH, D. H., MILLER, C. D., CULLIS, H. M., LOHR, D. (Penn State Univ., Dept. Chem., University Pk., Pa., 16802 USA): Enthalpimetric analysis. *Anal. Chem.* 48 (1976) A 427
- JOSHI, Y. P., SINGH, D. P. (Banaras Hindu Univ., Phys. Dept., Varanasi, 221005 India): Thermal resistivity due to three-phonon normal processes. *Physica A* 81 (1975) 475
- KAMIMOTO, M., TAKAHASHI, Y., MUKAIBO, T. (Univ. Tokyo, Dept. Nucl. Engn., Tokyo, Japan): Thermal conductivity of NaCl-type uranium compounds. *J. Nucl. Mater.* 59 (1976) 149
- KANE-MAGUIRE, N. A. P., EDWARDS, S. A. (Furman Univ., Dept. Chem., Greenville, S.C., 29613 USA): Thermal racemization of tris(1,10-phenanthroline)chromium(III). *J. Inorg. Nucl. Chem.* 38 (1976) 1037
- KARLSSON, R., KULLBERG, L. (Univ. Lund, Ctr. Chem., S-22007 Lund, Sweden): A computer method for simultaneous calculation of equilibrium constants and enthalpy changes from calorimetric data. *Chem. Scr.* (1976) 54
- KARTSEV, V. E., KOVALEV, F. V., KORSHUNOV, B. G.: Melt in the K_2NbF_7 — NaF — $NaCl$ — KCl system. *Zh. Neorg. Khim.* 21 (1976) 536 (In Russian)
- KESSLER, J. A., TRETYAKOV, Y. D., GOREDEYEV, I. V., ALFEROV, V. A. (Moscow State Univ., Chem. Dept., Moscow, USSR): A thermochemical study of iron, cobalt, and copper sulphochromites. *J. Chem. Thermodyn.* (1976) 101
- KESTIN, J. (Brown Univ., Providence, R.I., 02912 USA): Experimental study of the existence of the logarithmic term in viscosity and thermal conductivity of gases at high pressure. *Rev. Phys. Chem. Jap.* (1975) 518
- KETTRUP, A., STRIEGLER, K. (Ruhr-Univ. Bochum, Lehrstuhl Anorg. Chem. I., Bochum, GFR): Kalorimetrische Bestimmung der Komplexstabilität von Additionskomplexen des $SbCl_5$ mit substituierten Acetessigsäureaniliden. *Thermochim. Acta* 15 (1976) 147
- KHAIKIN, S. Y., AGNIVTSEVA, T. G., SIROTA, A. G., PUKSHENSKII, M. O. (Plastpolimer Sci. Ind. Assoc., Okhta, USSR): Study of the structure of waxes. Products of thermal degradation of low-density polyethylene. *Vysokomol. Soedin. B* 18 (1976) 92 (In Russian)
- KHAIN, A. P. (Moscow Hydrometeorol. Ctr., Moscow, USSR): On the influence of the latent heat of condensation on the struc-

- ture of circulation in the convective cell. *Fiz. Atmos. Okean.* 12 (1976) 213 (In Russian)
- KHANDELWAL, B. L., VERMA, V. P. (Indian Inst. Technol., Dept. Chem., New Delhi, 110029 India): Liquid — liquid distribution, spectrophotometric, thermal, IR and Raman studies on selenito uranylates. *J. Inorg. Nucl. Chem.* 38 (1976) 763
- KIJIMA, T., KOGA, K., YOSHIZUMI, T., IMADA, K., TAKAYANAGI, M. (Kumamoto Univ., Kumamoto 860, Japan): Temperature and pressure dependences of the Grüneisen constant of polyethylene crystals. *Rev. Phys. Chem. Jap.* (1975) 78
- KING, K. D., GODDARD, R. D. (Univ. Adelaide, Dept. Chem. Engn., Adelaide 5001, S. Australia): Very low-pressure pyrolysis of alkyl cyanides. III. Tert. butyl cyanide. Effect of the cyano group on bond dissociation energies and reactivity. *J. Phys. Chem.* 80 (1976) 546
- KING, M. K. (Atlantic Res. Corp., Alexandria, Va., 22314 USA): A modification of the composite propellant erosive burning model of Lenoir and Robillard. *Combust. Flame* 24 (1975) 365
- KING, W. D., FLETCHER, N. H. (CSIRO, Div. Cloud Phys., Sydney, Australia): Thermal shock as an ice multiplication mechanism. I. Theory. *J. Atmosph. Sci.* 33 (1976) 85
- KING, W. D., FLETCHER, N. H. (CSIRO, Div. Cloud Phys., Sydney, Australia): Thermal shock as an ice multiplication mechanism. II. Experimental. *J. Atmosph. Sci.* 33 (1976) 97
- KRIVITS, P. (Philips Res. Lab., Eindhoven, Netherlands): Thermally stimulated and stationary Hall effect measurements on CdGa₂S₄. *J. Phys. C* 9 (1976) 605
- KLASON, C., KUBÁT, J. (Chalmers Univ. Technol., Dept. Polymeric. Mat., S-40220 Gothenburg, Sweden): Thermal and current noise in carbon black-filled polystyrene and polyethylene in the vicinity of *Tg* and *Tm*. *J. Appl. Polym. Sci.* 20 (1976) 489
- KLEPPA, O. J., WAKIHARA, M. (Univ. Chicago, James Franck Inst., Chicago, Ill., 60637 USA): Enthalpies of mixing in the liquid mixtures of zinc fluoride with the fluorides of lithium, sodium and potassium. *J. Inorg. Nucl. Chem.* 38 (1976) 715
- K'LUMP, H. (Univ. Freiburg, Inst. Phys. Chem., Freiburg, GFR): A calorimetric study of self-association of 5'-GMP in neutral aqueous solution. *Ber. Bunsen Ges. Phys. Chem.* 80 (1976) 121
- KODAMA, H., GOTO, M., IBARAKI-KEN (Natl. Inst. Res. Inorg. Ind. Sci., 22-1 Roppongi Chome, Minato, 106 Tokyo, Japan): Thermal decomposition of NbCl₃(OCH₃)₃. *Z. Anorg. Allg. Chem.* 421 (1976) 71
- KONSTANTINOV, I. I., SELIVANOV, V. D., MELENTEVA, T. I.: Heats of phosgenation of aniline, 2-4-tolylenediamine, and 4,4'-diaminodiphenylmethane. *J. Appl. Chem. USSR* transl. *Zh. Prikl. Khim.* 48 (1975) 2172
- KOPPIKAR, D. K., SOUNDARARAJAN, S. (c/o S. Soundararajan, Indian Inst. Sci., Dept. Inorg. and Phys. Chem., Ind-560012 Bangalore, India): Preparation, infrared spectra and differential thermal analyses of rare-earth dithiodiacetates. *Monatsh. Chem.* 107 (1976) 105
- KOREN, G. (IBM Zürich Res. Lab., 8803 Rüschlikon, Switzerland): Thermal blooming measurement of specific heat and thermal conductivity in isotropic p-methoxy benzylidene p-butylaniline (MBBA) near clearing. *Phys. Rev. A* 13 (1976) 1177
- KORSHAK, V. V., KHOMUTOV, V. A., DOROSHENKO, Y. E. (Acad. Sci. USSR, Inst. Organoelement Cpds., Moscow, USSR): Study of the thermal stability in the series of aromatic and nitrogen-containing polycyclic compounds. *Vysokomol. Soedin. A* 18 (1976) 523 (In Russian)
- KOSKI, A. A., PRICE, S. J. W., TRUDELL, B. C. (c/o S. J. W. Price, Univ. Windsor, Chem. Dept, Windsor N9B 3P4, Ontario, Canada): Studies of the pyrolysis of diethylzinc by the toluene carrier method and of the reaction of ethyl radicals with toluene. *Can. J. Chem.* 54 (1976) 482
- KRAEFT, W. D., STOLZMANN, W. (Univ. Rostock, Sekt. Phys., Rostock, GDR): Hartree-Fock energy and electronic specific heat. *Phys. Lett. A* 56 (1976) 41
- KRAJEWSKI, W., WINTERHAGER, H. (Rheinisch-Westfälischen Techn. Hochschule, Inst. Metallhüttenwesen und Elektrometallurgie, Aachen, GFR): Thermo-gravimetric Oxydationsversuche und dilatometrische Untersuchungen an bi-

- nären Kobalt-Chrom-Legierungen. *Thermochim. Acta* 15 (1976) 189
- KRÄMER, V. (Univ. Freiburg, Kristallographisches Inst., Hebelstr. 25, D-78 Freiburg, GFR): Differenzthermoanalyse und Kristallzüchtung im System In_2S_3 — Bi_2S_3 . *Thermochim. Acta* 15 (1976) 205
- KRISHNA, C. R., BERLAD, A. L. (Brookhaven, Natl. Lab., Upton, N. Y., 11973 USA): Stability of combustible systems. *Combust. Flame* 26 (1976) 133
- KRIVTSEV, N. V., BABAEVA, V. P., ROSOLOVSKII, V. Y. (N. S. Kurnakov Gen. and Inorg. Chem. Inst., Moscow, USSR): Enthalpy of formation of potassium perchloratoborate and boron perchlorate. *Zh. Neorg. Khim.* 21 (1976) 265 (In Russian)
- KRUG, D., HÄDRICH, W. (Univ. Tübingen, Inst. Anorg. Chem. I., Auf der Morgenstelle 18, D-7400 Tübingen, GFR): Neuere Untersuchungen mit Wärmeleitfähigkeitszellen bei der EGA. *Thermochim. Acta* 15 (1976) 179
- KRYSEWSKI, M., ZIELINSKI, M., SAPIEHA, S. (Polish Acad. Sci., Ctr. Molec. and Macromolec. Studies, Łódź, Poland): Analysis of relaxation processes in methacrylate polymers by thermally stimulated discharge. *Polymer* 17 (1976) 212
- KUREPIN, V. A. (Acad. Sci. UkrSSR, Mineral, Geochem. and Phys. Inst., Kiev, UkrSSR): About the method of thermodynamical analysis of mineral equilibria with the participation of phases of intermediate composition. *Geokhimiya* (1976) 289 (In Russian)
- KUROKI, T., SAWAGUCHI, T., HASHIMA, T., KAWASHIMA, T., IKEMURA, T. (Nihon Univ., Fac. Sci. and Engn., Dept. Ind. Chem., Chiyoda 101, Tokyo, Japan): Thermal gasification of polypropylene. *J. Chem. Soc. Jap.* (1976) 322 (In Japanese)
- KUROKI, T., SAWAGUCHI, T., SEKIGUCHI, Y., OGAWA, T., KUBO, T., IKEMURA, T. (Nihon Univ., Fac. Sci. and Engn., Dept. Ind. Chem., Chiyoda 101, Tokyo, Japan): Thermal gasification of polypropylene. Prediction of product yield based on intensity function of pyrolysis conditions. *J. Chem. Soc. Jap.* 5 (1976) 328 (In Japanese)
- KUTVITSKII, V. A., KOSOV, A. V., SKORIKOV, V. M., ZHEREB, V. P., KARGIN, Y. F.: Properties of melts in the Bi_2O_3 — ZnO and Bi_2O_3 — CdO systems. *Zh. Neorg. Khim.* 21 (1976) 529 (In Russian)
- LAKTIONOV, V. M., ZHURAVLEVA, I. V., PAVLOVA, S. A., RAFIKOV, S. R., SALAZKIN, S. N., VINOGRADOVA, S. V., KUL'KOV, A. A., KORSHAK, V. V. (Acad. Sci. USSR, Inst. Organoelem. Compds., Moscow, USSR): Thermal stability of polysulfonearylates and polysulfonearylene oxides. *Vysokomol. Soedin. A* 18 (1976) 330 (In Russian)
- LANG, E., BRENNER, J. (Arzneimittelprüfstelle, An der Gaschbach 8, D-6600 Saarbrücken, GFR): On the effect of some sample preparation techniques on the electrical and calorific properties of vanadium. *Z. Metallk.* 67 (1976) 66
- LANTZ, J. B., GONZALEZ, R. D. (Univ. Rhode Island, Dept. Chem., Kingston, R.I., 02881 USA): Development of a new isothermal calorimeter: heats of hydrogen adsorption on supported platinum vs. crystallite size. *J. Catal.* 41 (1976) 293
- LATYAEVA, V. N., VYSHINSKAYA, L. I., MARIN V. P. (N. I. Lobachevskii State Univ., Chem. Inst., Gorki, USSR): Thermolysis of biscyclopentadienyl derivatives of titanium. *Zh. Obshch. Khim.* 46 (1976) 628 (In Russian)
- LAW, C. K. (Princeton Univ., Guggenheim Lab., Princeton, N.J., 08540 USA): Unsteady droplet combustion with droplet heating. *Combust. Flame* 26 (1976) 17
- LEBEDEV, V. A., IZOVSKEV, V. V., PYATKOV, V. I., KLIMOVSKIKH, N. M. (S. M. Kirov Polytech. Inst., Sverdlovsk, USSR): Thermodynamics of V-Zn-Sb liquid alloys. *Zh. Fiz. Khim.* 50 (1976) 539 (In Russian)
- LEE, H. J., TAYLOR, R. E. (Purdue Univ., Propert. Res. Lab., W. Lafayette, Ind., 47906 USA): Thermophysical properties of carbon/graphite fibers and MOD-3 fiber-reinforced graphite. *Carbon* 13 (1975) 521
- LEGER, G., LUCAS, X., BÉRANGER, G., LACOMBE, P. (Univ. Paris Sud., CNRS, Lab. Met. Phys., 91405 Orsay, France): Étude cinétique et structurale de l'oxydation dans l'oxygène pur à haute température (700–850 °C) de l'alliage Ti—Cu 2,5% en poids. *Compt. Rend.* 282 (1976) 209
- LEPLYANIN, G. V., RAFIKOV, S. R., EGOROV, Y. I., PROKHOROV, G. M., ZAINULLINA,

- R. V., KORCHEV, O. I.: Effect of aliphatic bisulfides on the thermal-oxidative degradation of poly(methyl methacrylate). *Vysokomol. Soedin. B* 18 (1976) 22 (In Russian)
- LETCHER, T. M., SACK, J. (Univ. Witwatersrand, Dept. Chem., Johannesburg, South Africa): The excess enthalpy of mixing of some hydrocarbon mixtures. *J. S. Afr. Chem. Inst.* 28 (1975) 316
- LIELMEZS, J., ALEMAN, H. (Univ. British Columbia, Chem. Eng. Dept., Vancouver, B. C., Canada): External transverse magnetic field effect on electrolyte diffusion in $\text{CsCl}-\text{H}_2\text{O}$ solution. *Thermochim. Acta* 15 (1976) 63
- LILLEY, T. H., SCOTT, R. P. (Univ. Sheffield, Chem. Dept., Sheffield, S3 7HF England): Aqueous solutions containing amino-acides and peptides. 2. Gibbs function and enthalpy behavior of the systems urea + glycine, urea + α -alanine, urea + α -amino-butyric acid and urea + glycylglycine at 298,15 K. *J. Chem. Soc. Faraday Trans. 72* (1976) 184
- LINKENS, A., VANDERSCHUEREN, J., CHOR, S. H., GASIOT, J. (Univ. Liège, Dept. Chim. Phys., Sart Tilman, B-4000 Liège, Belgium): Les phénomènes de relaxation non isotherme dans les copolymères éthylène-acétate de vinyle. I. Courants de dépolarisation thermique. *Eur. Polym. J.* 12 (1976) 137
- LINKENS, A., VANDERSCHUEREN, J., CHOR, S. H., GASIOT, J. (Univ. Liège, Dept. Chim. Phys., Sart Tilman, B-4000 Liège, Belgium): Les phénomènes de relaxation non isotherme dans les copolymères éthylène-acétate de vinyle. II. Thermoluminescence. *Eur. Polym. J.* 12 (1976) 141
- LIAGON'KII, B. I., SHAMRAEV, G. M., DULOV, A. A., BERLIN, A. A. (Acad. Sci. USSR, Chem. Phys. Inst., Moscow, USSR): Pyrolysis of polymers with a conjugation system under vacuum as a method of preparation of conducting coatings. *Vysokomol. Soedin. B* 18 (1976) 58 (In Russian)
- LIPSKIS, A. L., KVILIS, A. V., LIPSKENE, A. M., MACHYULIS, A. N. (Acad. Sci. LiSSR, Engr. Phys. Inst., Vilnius, LiSSR): Calculation of the kinetic parameters of thermal degradation of polymers. *Vysokomol. Soedin. A* 18 (1976) 426 (In Russian)
- LIPTAY, Gy., SORS, I. (Tech. Univ. Budapest, Dept. Inorg. Chem., H-1521 Budapest, Hungary): Thermal investigation of the manufacture of active substance for lead storage batteries. *Thermochim. Acta* 14 (1976) 279
- LOGVINENKO, S. P., RASSOSHANSKII, O. A. (Acad. Sci. UkrSSR, Low Temp. Engrn. Phys. Inst., Kharkov, UkrSSR): Low temperature thermo-diodes of GaAs, doped with Zn. *Cryogenics* 16 (1976) 118
- LUNDBERG, B. (Res. Inst. Åbo Akademi Fdn., SF-20500 Turku, Finland): Thermal properties of systems containing cholesterol esters and triglycerides. *Acta Chem. Scand. B* 30 (1976) 150
- LUTKOV, A. I., DYMOK, B. K.: Model for heat capacity of graphite at high temperatures. *Zh. Fiz. Khim.* 49 (1975) 3098 (In Russian)
- MAGEE, T. J., JOHNSON, N. M., LEHMANN, M., PENG, J., HANNIGAN, J. (Stanford Res. Inst., Menlo Pk., Calif 94025 USA): Compact calorimeter for measuring laser absorption coefficients of small samples. *Rev. Sci. Instrum.* 47 (1976) 301
- MAMIYA, T., MASUDA, Y. (Nagoya Univ., Dept. Phys., Nagoya 464, Japan): Low temperature specific heat of CrMo alloys. *J. Phys. Soc. Jap.* 40 (1976) 390
- MANNING, N. J., NOWELL, D. V., WATSON, J. (Hatfield Polytechn., Dept. Chem. Sci., P.O.B. 109, Hatfield, Hertfordshire, AL10 9AB, England): Determination of specific heat by differential scanning calorimetry at low temperature. *Thermochim. Acta* 15 (1976) 241
- MARCHIDAN, D. I., VASU, L. (Ctr. Phys. Chem., Str. Galați 31, Bucharest, Romania): Melting heats of alkali halide solid solutions. *Rev. Roum. Chim.* 21 (1976) 25
- MARTI, E. (Ciba-Geigy A.G., Zent. Forsch. Dienste, Basel, Switzerland): Der Einsatz von thermoanalytischen Geräten in der chemischen Industrie. *Thermochim. Acta* 15 (1976) 125
- MARUTA, M., YAMADA, K. (Shimadzu Seisakusho Co. Ltd., Sci. and Ind. Instr. Div., 1 Nishinokyo Kuwabara, Kyoto,

- Japan): A high temperature and high sensitivity micro-thermobalance. *Thermochim. Acta* 14 (1976) 245
- MASHAROV, N. F.: On electron specific heat of metals. *Fiz. Tverd. Tela* 18 (1976) 295 (In Russian)
- MASSON, D., RICHARD, C., MARTIN, R. (Univ. Nancy 1, Dept. Chim. Phys. et Petrolochim., 54042 Nancy, France): Thermal isomerization of cis-or trans-2-butene. The unimolecular elimination of hydrogen from cis-2-butene around 500 °C. *Int. J. Chem. Kin.* 8 (1976) 37
- MATSUO, T., KUME, Y., SUGA, H., SEKI, S. (Osaka Univ., Fac. Sci., Dept. Chem., Toyonaka, 560 Osaka, Japan): Heat capacities of copper(II) formate tetrahydrate and tetradeuterate. A comparative study of phase transitions in layer hydrate crystals. *J. Phys. Chem. Solids* 37 (1976) 499
- MATSUSHIMA, S., SUITO, K., KONDO, S. (Kyoto Univ., Sch. Liberal Arts, Kyoto, Japan): Variation of the elastic properties accompanying the calcite 1-2 transition at high pressure and temperature. *Proc. 4th Int. Conf. High Pressure, Kyoto 1974*, 383
- MATUI, S., AIDA, H. (Fukui Tech. Coll., Dept. Ind. Chem., Fukui, Japan): Thermal stabilities of poly(N-alkyl maleimides). *Polymer* 17 (1976) 199
- MCCAFFREY, B. J., HESKESTAD, G. (NBS Washington, D.C., 20234 USA): Robust bidirectional low-velocity probe for flame and fire application. *Combust. Flame* 26 (1976) 125
- MCKAY, J. A., SCHRIEMPF, J. T. (USN Naval Res. Lab., Washington, D.C., 20375 USA): Corrections for non-uniform surface-heating errors in flash-method thermal-diffusivity measurements. *J. Appl. Phys.* 47 (1976) 1668
- MELIUS, P., YON-PING SHENG, J. (Auburn Univ., Dept. Chem., Auburn, Al., 36830 USA): Thermal condensation of a mixture of six amino acids. *Bioorg. Chem.* 4 (1975) 385
- MEZEY, L. Z. (Tech. Univ. Budapest, Phys. Inst., H-1521 Budapest, Hungary): Discussion of the thermodynamic equation of motion on the basis of the thermostatic theory of stability. *Acta Chim. Acad. Sci. Hung.* 87 (1975) 41
- MEZEY, L. Z. (Tech. Univ. Budapest, Phys. Inst., H-1521 Budapest, Hungary): General information on equations of state on the basis of the thermostatic theory of stability. *Acta Phys. Acad. Sci. Hung.* 38 (1975) 279
- MILLER, R. D., DOLCE, D. L. (IBM Co., Res. Lab., San Jose, Calif., 95193 USA): Derivatives of tetracyclo-(4.3.0^{2,9}.0^{5,7}) non-3-ene: synthesis and thermal rearrangements. *Tetrahedron Lett.* 14 (1976) 1059
- MITA, K., OKUBO, T., ISE, N. (c/o N. Ise, Kyoto Univ., Dept. Polymer Chem., Kyoto, Japan): Heat of dilution of aqueous solutions of sodium salts of partially sulphonated polystyrenes. *J. Chem. Soc. Faraday Trans. I* 72 (1976) 504
- MITCHELL, R. S., GLUSKOTER, H. J. (Univ. Virginia, Charlottesville, Va., 22903, USA): Mineralogy of ash of some American coals: variations with temperature and source. *Fuel* 55 (1976) 90
- MOHAZZABI, P., SEARCY, A. W. (c/o A. W. Searcy, Univ. Calif., Coll. Engn., Dept. Mat. Sci. and Engn., Berkeley, Calif., 94720 USA): Kinetics and thermodynamics of decomposition of barium sulphate. *J. Chem. Soc. Faraday Trans. I*, 72 (1976) 290
- MOSIN, A. M., SHAULOV, Y. K. (Moscow Elect. Machinery Inst., Moscow, USSR): Thermodynamic functions of trimethyl gallium. *Zh. Fiz. Khim.* 50 (1976) 543 (In Russian)
- MOYNIHAN, C. T., EASTEAL, A. J., DEBOLT, M. A., TUCKER, J. (Catholic Univ. America, Chem. Engn. and Mat. Sci., Dept. Vitreous State Lab., Washington, D.C., 20064 USA): Dependence of the fictive temperature of glass on cooling rate. *J. Amer. Ceram. Soc.* 59 (1976) 12
- MUKMENEVA, N. A., AKHMADULLINA, A. G., SABIROVA, L. K., CHEBOTAREVA, E. G., KIRPICHNIKOV, P. A. (S. M. Kirov Engn. Phys. Inst., Kazan, USSR): Improvement of the stabilized efficiency of phosphorous acid esters by means of tetravalent titanium compounds during thermal oxidation of low-density polyethylene. *Vysokomol. Soedin. B* 18 (1976) 108 (In Russian)
- MURAV'eva, I. A., DENLEV, N., KHALMURZAEV, N. K., BYRKÉ, A. I., BERLYAND, A. S., MARTYNENKO, L. I., SPITSYN, V. I. (M. V. Lomonosov State Univ., Moscow, USSR): Study of the thermal stability of

- crystal hydrates of dibenzoymethanates of the rare earth metals. *Bull. Acad. Sci. USSR Div. Chem. Sci.* transl. *Izv. Akad. Nauk SSSR Khim.* 24 (1975) 1161
- MYSEN, B. O., BOETTCHER, A. L. (Geophys. Lab., 2801 Upton St. N. W., Washington, D. C., 20008 USA): Melting of a hydrous mantle: III. Phase relations of garnet websterite + H_2O at high pressures and temperatures. *J. Petrol.* 17 (1976) 1
- NAIR, C. G. R., MADHUSUDANAN, P. M. (Kerala Univ., Dept. Chem., Trivandrum, 695001, Kerala, India): Thermal decomposition studies. VIII. A dynamic-thermogravimetric study of the mechanism of deamination of some transition metal complexes. *Thermochim. Acta* 14 (1976) 373
- NAIR, M. N. R., PAI-VERNEKER, V. R. (Indian Inst. Sci., Dept. Inorg. and Phys. Chem., High Energy Solids Lab., Bangalore, 560012 India): Incomplete decomposition of ammonium oxalate. *Combust. Flame* 25 (1975) 301
- NAKANISHI, K., ASHITANI, K., TOUHARA, H. (Kyoto Univ., Dept. Ind. Chem., Kyoto 606, Japan): Excess Gibbs free energy and excess volume of methanol + pyridine, + 2-methylpyridine, and + 2,6-dimethylpyridine. *J. Chem. Thermodyn.* (1976) 121
- NÉROU, J. P., FILION, A., GIRARD, P. E. (Coll. Mil. Roy, St. Jean, GRSD, St. Jean, Quebec, Canada): Low temperature surface conductivity of GaSb. *J. Phys. C* 9 (1976) 479
- NEWROCK, R. S., MAXFIELD, B. W. (Univ. Cincinnati, Phys. Dept., Cincinnati, Ohio, 45221 USA): Transverse thermal magnetoresistance of potassium. *J. Low Temp. Phys.* 23 (1976) 119
- NICHOLSON, R. D. (Cent. Elect. Generating Board, Nucl. Labs., Berkeley GL13 9PB, Gloucestershire, England): The effect of temperature on creep crack propagation in AISI 316 stainless steel. *Mater. Sci. Eng.* 22 (1976) 1
- NIGAM, R. K., SINGH, K. C., MAINI, N. N. (Kurukshetra Univ., Dept. Chem., Kurukshetra, India): Excess Gibbs free energies, excess volumes, and excess enthalpies of chlorobenzene +, and bromobenzene + + o-xylene + m-xylene, and + p-xylene. *J. Chem. Thermodyn.* 8 (1976) 159
- NIKOLAEV, A. F., BELOGORODSKAYA, K. V., SHIBALOVICH, V. G., ANDREEVA, E. D., IVANOVA, G. I.: Thermal decomposition of bis(acetyl-acetonato) carboxylates of manganese(III). *J. Appl. Chem. USSR* transl. *Zh. Prikl. Khim.* 48 (1975) 2096
- NISHIZAKI, H. (Govt. Ind. Dev. Lab., Hokkaido, Sapporo, 061-01 Japan): Study on pyrolysis of polystyrene by using gel permeation chromatography. *J. Chem. Soc. Jap.* (1976) 331 (In Japanese)
- NORFOLK, S. D. B., TAYLOR, R. (c/o R. Taylor, Univ. Sussex, Sch. Molec. Sci., Brighton BN1 9QJ, Sussex, England): The mechanism of the gas-phase pyrolysis of esters. IV. Effects of substituents at the β -carbon atom. *J. Chem. Soc. Perkin Trans. II* (1976) 280
- NORTON, M. A., BERTHOLD III., J. W., JACOBS, S. F., PLUMMER, W. A. (Calif. Polytech. State Univ., San Luis Obispo, Dept. Phys., San Luis Obispo, Calif., 93401 USA): Precise measurement of the thermal expansion of silicon near 40 °C. *J. Appl. Phys.* 47 (1976) 1683
- NOVOZHILOVA, O. G., PLETYUSHKINA, A. I., VOVCHENKO, G. D., PORTNOI, V. K., SEMIONOVA, A. D. (Moscow State Univ., Gen. Chem. Dept., Moscow, USSR): The effect of thermal treatment in the hydrogen atmosphere on properties of iridium electrolytic precipitations. *Vestn. Moskovsk. Univ.* 16 (1975) 698 (In Russian)
- OAKES, J. (Unilever Res. Lab., Port Sunlight Wirral, Merseyside, L62 4XN England): Thermally denatured proteins. Nuclear magnetic resonance, binding isotherm and chemical modification studies of thermally denatured bovine serum albumin. *J. Chem. Soc. Faraday Trans. I* 72 (1976) 228
- O'HARE, P. A. G., HOEKSTRA, H. R., FREDRICKSON, D. R. (Argonne Natl. Lab., Chem. Engr. Div., Argonne, Ill., 60439 USA): Thermochemistry of uranium compounds. VII. Solution calorimetry of α - and β - Na_2UO_4 , standard enthalpy of formation of β - Na_2UO_4 , and the enthalpy of the α to β transition at 298,15 K. *J. Chem. Thermodyn.* (1976) 255

- OKAJI, M., WATANABE, T. (Hokkaido Univ., Fac. Sci., Dept. Phys., Sapporo, Japan): The specific heats of three antiferromagnets in spin wave region. *J. Phys. Soc. Jap.* 40 (1976) 589
- O'KEEFFE, M., HYDE, B. G. (Arizona State Univ., Dept. Chem., Tempe, Ariz., 85281 USA): The solid electrolyte transition and melting in salts. *Phil. Mag.* 33 (1976) 219
- OTTO, H. H. (Univ. Regensburg, Fachbereich Phys., Abt. Kristallog., Regensburg, GFR): Eine neue Hochtemperaturverbindung: $PbGeO_3$. *Naturwissenschaften* 63 (1976) 38
- PAI VERNEKER, V. R., RAJESHWAR, K. (Indian Inst. Sci., Dept. Inorg. and Phys. Chem., High Energy Solids Lab., Bangalore, 560012 India): Effect of prior mechanical and thermal treatment on the thermal decomposition of orthorhombic ammonium perchlorate. *J. Solid State Chem.* 17 (1976) 27
- PANAFIEU, A. D., ROYCE, B. S. H., RUSSEL, T. (Thomson C. S. F., 91 Orsay, France): Thermal decomposition of potassium azide. *J. Chem. Phys.* 64 (1976) 1473
- PARKER, D. R., SOMMER, L. H. (c/o L. H. Sommer, Univ. Calif., Dept. Chem., Davis, Calif., 95616 USA): Pyrolysis of silyl azides. Generation and reactions of unsaturated silicon-nitrogen intermediates [$R_2Si = NR$]. *J. Organometall. Chem.* 109 (1976) C1
- PASTINE, D. J., WARFIELD, R. W. (USN, Surface Weapons Ctr., Silver Spring, Md., 20910 USA): Thermal pressures in liquid polymers and the solid-liquid phase line of polyethylene and other similar polymers. *Rev. Phys. Chem. Jap.* (1975) 44
- PATIL, K. C., PAI VERNEKER, V. R. (Indian Inst. Sci., Dept. Inorg. and Phys. Chem., Bangalore, 560012 India): Role of metal perchlorate ammines on ammonium perchlorate decomposition. *Combust. Flame* 25 (1975) 387
- PATIL, K. C., Pai VERNEKER, V. R., JAIN, S. R. (Indian Inst. Sci., Dept. Inorg. and Phys. Chem., Bangalore, 560012 India): Metal perchlorate ammines: thermal and infrared studies. *Thermochim. Acta* 15 (1976) 257
- PAVLOV, N. N., VASSERMAN, A. M., SADE, V. A. (Acad. Sci. USSR, Chem. Phys. Inst., Moscow, USSR): Investigation of the thermal ageing of polycarbonate by means of a paramagnetic probe. *Vysokomol. Soedin. B* 18 (1976) 117 (In Russian)
- PELOUS, J., VACHER, R. (Univ. Sci. et Tech. Languedoc, Lab. Spectrometrie Rayleigh Brillouin, CNRS 460, 34060 Montpellier, France): Thermal Brillouin scattering in crystalline and fused quartz from 20 to 1000 °C. *Solid State Commun.* 18 (1976) 657
- PETERMANN, J., GLEITER, H. (Univ. Saarbrücken, D-6600 Saarbrücken, GFR): On the molecular structure of thin molten polyethylene films. *J. Macromol. Sci. B* 11 (1975) 359
- PFEIL, W., PRIVALOV, P. L. (c/o P. L. Privalov, Acad. Sci. USSR, Prot. Res. Inst., Pushchino, Oka, USSR): Thermodynamic investigations of proteins. I. Standard functions for proteins with lysozyme as an example. *Biophys. Chem.* 4 (1976) 23
- PFEIL, W., PRIVALOV, P. L. (c/o P. L. Privalov, Acad. Sci. USSR., Prot. Res. Inst., Pushchino, Oka, USSR): Thermodynamic investigations of proteins. II. Calorimetric study of lysozyme denaturation by guanidine hydrochloride. *Biophys. Chem.* 4 (1976) 33
- PFEIL, W., PRIVALOV, P. L. (c/o P. L. Privalov, Acad. Sci. USSR, Prot. Res. Inst., Pushchino, Oka, USSR): Thermodynamic investigations of proteins. III. Thermodynamic description of lysozyme. *Biophys. Chem.* 4 (1976) 41
- PHILLIPS, D. L., YOURTEE, D. M. (Ctr. Canc. Res., Biochem. Sect., Columbia, Mo., 65201 USA): Development of a thermometric assay for cancer differentiation based on aldolase isozyme patterns. *Anal. Lett.* 9 (1976) 235
- PINCHUK, U. (Chernovtsy State Univ., Chernovtsy, UkrSSR): Electron-phonon umklap processes in theory of electroconductivity and phonon thermoconductivity of alkali metals. *Fiz. Tverd. Tela* 18 (1976) 115 (In Russian)
- PINKA, U. A., AVOTS, A. A. (Acad. Sci. LaSSR, Org. Synth. Inst., Riga, LaSSR): Polynomial selection for approximation of thermodynamic properties in 298–1200 K range. *Zh. Fiz. Khim.* 50 (1976) 530 (In Russian)
- POKROVSKII, A. N., KOVBA, L. M.: Thermal

- stability of anhydrous rare earth sulfates. *Zh. Neorg. Khim.* 21 (1976) 567 (In Russian)
- POLYACHENOK, L. D., DUDCHIK, G. P., POLYACHENOK, O. G. (S. M. Kirov Technol. Inst., Minsk, BeSSR): Tensimetric study of thermochemical properties of vaporous halides, reacting with quartz glass. *Zh. Fiz. Khim.* 50 (1976) 387 (In Russian)
- POSADOV, I. A., SIROTINKIN, N. V., POKONOVA, YU. V., PROSKURYAKOV, V. A. (Lensovet Technol. Inst., Leningrad, USSR): Combined thermographic investigation of petroleum asphaltenes. *J. Appl. Chem. USSR* transl. *Zh. Prikl. Khim.* 48 (1975) 2120
- PROTOPAPAS, P., PARLEE, N. A. D. (Stanford Univ., Dept. Appl. Earth Sci., Stanford, Calif., 94305 USA): On a theory for the derivation of a single hard-sphere potential describing the overall molecular interactions in binary liquid metal alloys as a function of temperature and composition. *High Temp. Sci.* 7 (1975) 259
- PURING, M. N., VINOGRADOV, M. V., ITSKOVICH, V. A., POTEKHIN, V. M., PROSKURYAKOV, V. A. (Lensovet Technol. Inst., Leningrad, USSR): Study of 1-methylcyclohexyl hydroperoxide decomposition by derivatography method. *Zh. Fiz. Khim.* 50 (1976) 366 (In Russian)
- RAGIMOV, I. A., ROZHANSKII, V. N., SLEZOV, V. V., RAGIMLI, N. A. (Acad. Sci. USSR, Crystallog. Inst., Moscow, USSR): Mechanism of rise of surface roughness subsurface defects at thermal oxidations of silicon crystals. *Fiz. Tverd. Tela.* 18 (1976) 683 (In Russian)
- RAMIREZ GARCIA, A., GARCIA MARTINEZ, O., GUERRERO LAVERAT, A., RUIZ AMIL, A. (Univ. Complutense Madrid, Fac. Ciencias Quim. CSIC, Inst. Quim. Inorg. Elhuyar, Madrid, Spain): Hidroxy salts. 20. Thermal decomposition of Cu hydroxysulfate and Zn hidroxysulfate. *An. Quim.* 72 (1976) 167 (In Spanish)
- RAŠKOVIĆ, V., MARINKOVIĆ, S. (Boris Kidrić Inst., Dept. Mat. Sci., Belgrade, Yugoslavia): Temperature dependence of processes during oxidation of PAN fibres. *Carbon* 13 (1975) 535
- REEDER, J., BLOCK, T. E., KNOBLER, C. M. (Univ. Calif., Dept. Chem., Los Angeles, Calif., 90024 USA): Excess volumes of nitroethane + 3 methylpentane. *J. Chem. Thermodyn.* (1976) 133
- REGGIANI, J. C., BERNARD, J., PERRET, R. (Lab. Chim. Phys., 32 Rue Megevand, 25000 Besançon, France): Détermination des enthalpies d'hydratation des chlorures doubles $\text{CuCl}_2 \cdot 2\text{KCl}$; $\text{CuCl}_2 \cdot 2\text{RbCl}$ et $\text{CuCl}_2 \cdot 2\text{NH}_4\text{Cl}$ par calorimétrie de dissolution. *Compt. Rend. Ser. C* 282 (1976) 257
- RENNHARD, H. H., BIANCHINE, J. R. (Pfizer Inc., Food Chem. Res. and Dev. Dept., Groton, Conn., 06340 USA): Metabolism and caloric utilization of orally administered maltitol — ^{14}C in rat, dog, and man. *J. Agr. Food Chem.* 24 (1976) 287
- REY, C., GENCE, J. N., SCHON, J. P., MATTHIEU, J. (Ecole Cent. Lyon, CNRS, Lab. Mecan. Fluides, Bp. 17, 36 Rt. Dardilly, 69130 Ecully, France): Étude de l'analogie entre les champs thermique et dynamique en turbulence homogène et isotrope dont les nombres de Reynolds et de Peclet sont petits, dans l'espace des nombres d'ondes. *Compt. Rend. Ser. B* 282 (1976) 59
- REY, C., GENCE, J. N., SCHON, J. P., MATTHIEU, J. (Ecole Centr. Lyon, CNRS, Lab. Mecanique Fluides, Bp. 17, 36 Rt. Dardilly, 69130 Ecully, France): Étude de l'analogie entre champs thermiques et dynamique en turbulence homogène et isotrope dont les nombres de Peclet et de Reynolds sont petits, dans l'espace physique. *Compt. Rend. Ser. B* 282 (1976) 79
- ROSEN, A., ROTTEM, A. (Technion Inst. Technol., Dept. Mat. Engn., Haifa, Israel): The effect of high temperature exposure on the creep resistance of Ti-6Al-4V alloy. *Mater. Sci. Eng.* 22 (1976) 23
- ROSENFIELD, Y. (Nucl. Res. Ctr. Negev, Beer-Sheva, Israel): Additivity of melting curves. *Chem. Phys. Lett.* 38 (1976) 591
- ROTH, P., JUST, TH. (c/o Th. Just, DFVLR Inst. Reaktionskinetik, Pfaffenwaldring 38, 7 Stuttgart, GFR): Messungen zum thermischen Zerfall von HCN hinter Stosswellen. *Ber. Bunsen Ges. Phys. Chem.* 80 (1976) 171
- RUDNITSKII, L. A., MAKSIMOVA, N. P., ALEKSEEV, A. M. (Moscow Nitrogen Ind. and Org. Synth. Prod. Res. Inst., Moscow, USSR): Simple thermographic unit with gas canal and automatic recording of

- thermograms. *Zh. Fiz. Khim.* 50 (1976) 551 (In Russian)
- RYBKIN, Y. F., NESTERENKO, Y. A.: High-temperature interaction of crystalline and melted NaI with steam and oxygen. *Zh. Fiz. Khim.* 50 (1976) 532 (In Russian)
- RYKOV, S. V., KESSENIKH, A. V., IGNATENKO, A. V. (N. D. Zelinskii Org. Chem. Inst., Moscow, USSR): Chemically induced nuclear polarization in the thermal decomposition of benzoyl and acetylbenzoyl peroxides in the presence of iodides. *Bull. Acad. Sci. USSR Div. Chem. Sci. transl. Izv. Akad. Nauk SSSR Khim.* 24 (1975) 1216
- SACCO, A., INGLESE, A., CIANI, P., DELL'ATTI, A., RAKSHIT, A. K. (Univ. Bari, Inst. Phys. Chem., Bari, Italy): Thermodynamic and physical properties of carbon tetrachloride + sulfolane mixtures. *Thermochim. Acta* 15 (1976) 71
- SAKAI, M. (Kyoto Univ. Ind. Arts and Text. Fibers, Fac. Text. Sci., Dept. Text. Chem., Sakyo, 606 Kyoto, Japan): Studies of the isomerization of unsaturated carboxylic acids. II. The thermal rearrangement of citraconic acid to itaconic acid in aqueous solutions. *Bull. Chem. Soc. Jap.* 49 (1976) 219
- SAKHAROVA, Y. G., BORISOVA, G. M. (Saratov State Univ., Saratov, USSR): Thermal stability of neodymium, samarium, europium and gadolinium thiocarbamides. *Zh. Neorg. Khim.* 21 (1976) 76 (In Russian)
- SANDHU, S. S., SANDHU, R. S., KUMARIA, J. N. (Guru Nanak Univ., Dept. Chem., Amritsar, India): Stability constants and thermodynamic functions of zinc(II), cadmium(II) and mercury(II) chelates of 1-hydroxy-2-naphthoic acid. *Thermochim. Acta* 15 (1976) 244
- SARIG, S., KAHANA, F. (Hebrew Univ. Casali Inst. Appl. Chem., Jerusalem, Israel): Thermal decomposition of basic lead carbonate. *Thermochim. Acta* 14 (1976) 263
- SASAKI, K., YOSHITOMI, T., MIURA, N. (Hiroshima Univ., Dept. Appl. Chem., Hiroshima, 730 Japan): Thermal separation column with vertical barriers. I. Analytical studies on the thermal separation column having vertical barriers. *Bull. Chem. Soc. Jap.* 49 (1976) 363
- SASAKI, K., MIURA, N., YOSHITOMI, T. (Hiroshima Univ., Dept. Appl. Chem., Hiroshima, 730 Japan): Thermal separation column with vertical barriers. II. Performance of a thermal separation column with vertical barriers. *Bull. Chem. Soc. Jap.* 49 (1976) 367
- SAZANOV, YU. N., SHIBAEV, L. A. (Acad. Sci. USSR, Inst. Macromol. Cpds., Leningrad, USSR): High temperature degradation of compounds modelling polyimide fragments. *Thermochim. Acta* 15 (1976) 43
- SCHÄFER, H., GIEGLING, D. (Univ. Münster, Anorg. Chem. Inst., Gievenbecher Weg 9, D-44 Münster, GFR): Chemie der Elemente Niob und Tantal. 87. Studien zum thermischen Aufbau und Abbau der Komplexe $[Nb_6Cl_{12}]^{2+}$, $[Nb_6I_8]^{3+}$, und $[Ta_6X_{12}]^{4+}$ ($X = Cl, Br, I$). *Z. Anorg. Allg. Chem.* 420 (1976) 1
- SCHAFFNER, K. (Univ. Geneva, Dept. Chem. Org., CH-1211 Geneva 4, Switzerland): 1-Acyl-2-cyclopentenes and 5-acyl-bicyclo[2.1.0] pentanes: photochemical and thermal isomerisations. *Tetrahedron* 32 (1976) 641
- SCHELZ, J. P. (Johnson and Johnson, D. O. C. Res., Anal. Labs., New Brunswick, N.J., 08903 USA): The detection of quartz in clay minerals by differential thermal analysis. *Thermochim. Acta* 15 (1976) 17
- SCHNEIDER, H., PANNHORST, W. (TH Karlsruhe, Mineral. Inst., Karlsruhe, GFR): A new high-temperature phase of andalusite. *Naturwissenschaften* 63 (1976) 37
- SCHNEIDER, M., STROHÄCKER, H. (Univ. Hohenheim, Inst. Chem., Stuttgart, GFR): Thermal and photochemical decomposition of cis- and trans-3,5-diphenyl-1-pyrazoline. *Tetrahedron* 32 (1976) 619
- SHEKHAR, C., SHARMA, S. K. (Cent. Electr. Engn. Res. Inst., SSD Div., Pilani, 333031 India): Temperature dependence of transport properties in GaAs. *Ind. J. Pure Appl. Phys.* 14 (1976) 177
- SHESHUKOV, A. V., YAKOVLEV, A. D., SHIBALOVICH, V. S. (Lensovet Technol. Inst., Leningrad, USSR): Device and methods for determining conditional temperature of polymer dissolution. *Zavods. Lab.* 41 (1975) 1483 (In Russian)
- SHIBATA, K., TAKASE, Y. (Gifu Univ., Fac. Engn., Dept. Ind. Chem., Kakamigahara, 504 Japan): Gas chromatographic anal-

- ysis of hydrozobenzenes by utilizing reductive thermolysis. *J. Chem. Soc. Jap.* (1976) 348 (In Japanese)
- SHVAREVA, G. N., BERLIN, A. A., KORSHUNOV, M. A.: Thermal-oxidative stability of methyl methacrylate-thioalkylacrylate copolymers. *Vysokomol. Soedin. B* 18 (1976) 132
- SIEBENECK, H. J., MINNEAR, W. P., BRADT, R. C., HASSELMAN, D. P. H. (Lehigh Univ., Ceramics Res. Lab., Bethlehem, Pa., 18015 USA): Thermal diffusivity of non-stoichiometric titanium dioxide. *J. Amer. Ceram. Soc.* 59 (1976) 84
- SIMON, J., KOZMA, T., GÁL, S. (Tech. Univ., Inst. Gen. Analyt. Chem., H-1521 Budapest, Hungary): Thermal analysis of wooden and of fire retardant substances. *Faipar* 26 (1976) 37 (In Hungarian)
- SLOBODIN, B. V., FOTIEV, A. A., MILLER, I. I. (Acad. Sci. USSR, Sci. Ctr., Chem. Inst., Sverdlovsk, USSR): Thermal properties of iron orthovanadate. *Zh. Neorg. Khim.* 21 (1976) 327 (In Russian)
- SMITH, D. E. (Univ. Delaware, Dept. Chem., Newark, Del., 19711 USA): Characterization of blends and copolymers of ethylene and methyl methacrylate by combined thermogravimetric analysis - infrared spectroscopy. *Thermochim. Acta* 14 (1976) 370
- SMITH, J. F., MOSER, Z. (Energy Res. and Dev. Adm. Ames Lab., Ames, Ia., 50010 USA): Thermodynamic properties of binary lithium systems. *Review J. Nucl. Mater.* 59 (1976) 158
- SOLDATOVA, T. A., TADOROVSKAYA, G. L., NOVOZHLOVA, N. V., VASHCHILO, L. S., KUZINA, Z. M.: Thermal decomposition of Mn(II) and Co(II) acetate tetrahydrates. *Zh. Neorg. Khim.* 21 (1976) 163 (In Russian)
- SMOLENTSEV, A. V., GOL'DSHTEIN, I. P., GUR'YANOVA, E. N., KATAEVA, L. M., KOCHESHKOV, K. A. (L. Y. Karpov Physicochem. Inst., Moscow, USSR): Calorimetric study of aluminium bromide complexes with organic selenides. *Bull. Acad. Sci. USSR. Chem. Sci. transl. Izv. Akad. Nauk SSSR Ser. Khim.* 24 (1975) 1565
- SOLONINA, O. P., NIKULOVA, V. F., ERMOLOVA, M. I.: Heat treatment of binary and ternary titanium alloys. *Met. Sci. Heat Treatm. transl. Metall. Termichesk. Obrab. Met.* 17 (1975) 597
- SOM, J., MUKHERJEE, D. K. (Indian Assoc. Cultivation Sci., Optics Dept., Calcutta, 32 India): Rotational isomerism in methyl 3-bromopropionate and ethyl 3-chloropropionate and probable stable rotamer in the solid state at low temperature. *Indian J. Pure Appl. Phys.* 14 (1976) 151
- SONE, K. Y., FUKUDA, Y., MIZUSAKI, J., MORIYAMA, K. (Univ. Ochanomizu, Fac. Nat. Sci., Dept. Chem., Otsuka, 112 Tokyo, Japan): Bemerkungen über Thermochromie von Kobalt(II)chloridlösungen in organischen Medien. I. Lösungen in verschiedenen Alkoholen. *Monatsh. Chem.* 107 (1976) 271
- SØRENSEN, O. T. (Danish Atomic Energy Comm., Risø, Denmark): Studies of non-stoichiometric oxides by thermoanalytical methods. *Thermochim. Acta* 15 (1976) 227
- SORENSEN, S. C., SAVAGE, L. D., STREHLLOW, R. A. (Univ. Illinois, Dept. Mech. and Ind. Engn., Urbana, Ill., 61801 USA): Flammability limits. New Technique. *Combust. Flame* 24 (1975) 347
- SOTNIKOVA-YUZHIK, V. A., PRODAN, E. A., PAVLYUCHENKO, M. M. (Acad. Sci. BeSSR, Gen. and Inorg. Chem. Inst., Minsk, BeSSR): Thermal conversions of potassium tripolyphosphate tetrahydrate. *Zh. Neorg. Khim.* 21 (1976) 41 (In Russian)
- SOUTHGATE, P. D. (RCA Labs., Princeton, N. J., 08540 USA): Room-temperature poling and morphology changes in pyroelectric polyvinylidene fluoride. *Appl. Phys. Lett.* 28 (1976) 250
- SPANGLER, C. W. (No. Illinois Univ., Michael Faraday Labs., DeKalb, Ill., 60115 USA): Thermal [*I*, *j*] sigmatropic rearrangements. *Chem. Rev.* 76 (1976) 187
- SPATH, H. T., WINKLER, H. G., HANDEL, K. D., TORKAR, K. (Tech. Univ. Graz, Inst. Phys. und Theoret. Chem., Rechbeuer Str. 12., A-8010 Graz, Austria): Kinetik der thermischen Zersetzung von $\text{Cs}_2\text{Zn}(\text{N}_3)_4$ und $\text{K}_2\text{Zn}(\text{N}_3)_4$. *Monatsh. Chem.* 107 (1976) 209
- STILL, R. H., WHITEHEAD, A. (Umist, Dept. Polymer and Fibre Sci., Manchester, M60 1QD, England): Thermal degradation of polymers. X. Thermal analysis studies on poly(p-N,N-dimethylaminostyrene) homopolymers and copolymers with styrene in nitrogen. *J. Appl. Polym. Sci.* 20 (1976) 627

- STILLMAN, M. J. (Univ. Western Ontario, Dept. Chem., London, N6A 5B7, Ontario, Canada): A sample cell for low temperature optical studies of frozen solutions. *Cryogenics* 16 (1976) 116
- STRIDH, G. (Univ. Lund, Chem. Ctr., Thermochem. Lab., S-22007 Lund, Sweden): Enthalpy of formation of 2-ethylhexanoic acid. *J. Chem. Thermodyn.* 8 (1976) 193
- SUNDQVIST, B., BÄCKSTRÖM, G. (Univ. Umeå, Dept. Phys., S-90187 Umeå, Sweden): Thermal conduction of metals under pressure. *Rev. Sci. Inst.* 47 (1976) 177
- TANAKA, R., BENSON, G. C. (Osaka, City Univ., Fac. Sci., Dept. Chem., Sumiyoshi, Osaka, Japan): Excess enthalpies of some ethylbenzene + aromatic hydrocarbon mixtures at 298.15 K. *J. Chem. Thermodyn.* 8 (1976) 259
- TEWARI, T. N., GAUR, M., RAM, R. (Banaras Hindu Univ., Inst Technol., Appl. Math. Sect., Varanasi, 221005 India): Anisotropic propagation of weak discontinuities in flows of thermally conducting and dissociating gases. *Proc. Indian Acad. Sci. A* 83 (1976) 65
- TEWARSON, A., PION, R. F. (Factory Mutual Res. Corp., 1151 Boston-Providence Turnpike, Norwood, Mass., 02062 USA): Flammability of plastics. 1. Burning intensity. *Combust. Flame* 26 (1976) 85
- TRAVERS, J. G., DELLIN, I., HEPLER, L. G. (Univ. Lethbridge, Dept. Chem., Lethbridge, Alberta, Canada): Scandium: thermodynamic properties, chemical equilibria, and standard potentials. *Thermochim. Acta* 15 (1976) 89
- TRIPPA, G., LOVERRE, A., CATAMO, A. (Fac. Sci. Rome, Ist. Genet., Rome, Italy): Thermostability studies for investigating non-electrophoretic polymorphic alleles in „Drosophila melanogaster”. *Nature* 260 (1976) 42
- UDUPA, M. R. (Indian Inst. Techn., Dept. Chem., Madras, 600036 India): Thermal behaviour of potassium perchlorate and potassium chlorate in presence of chromium(VI) oxide. *Thermochim. Acta* 15 (1976) 261
- VAN DE VELDE, G. M. H., ORANJE, P. J. D. (Twente Univ. Technol., Dept. Chem. Engn., Lab. Inorg. Chem. and Mat. Sci., Enschede, Netherlands): Thermal decomposition of lead titanyl oxalate tetrahydrate. *Thermochim. Acta* 14 (1976) 269
- VAN DIEMEN, A. J. G., HOUTEPEN, C. J. M., STEIN, H. N. (Tech. Univ., Lab. Gen. Chem., Eindhoven, Netherlands): Thermodynamic properties of 3-pentanol + diethylamine mixtures. *Thermochim. Acta* 15 (1976) 55
- VAN HECKE, G. R. (Harvey Mudd Coll., Claremont, Calif., 91711 USA): Thermotropic liquid crystals: a use of chemical potential temperature phase diagrams. *J. Chem. Educ.* 53 (1976) 161
- VARMA, D., BHATNAGAR, C. S. (Maulana Azad. Coll. Technol., Phys. Res. Lab., Bhopal, 462007 India): Studies on thermally stimulated discharge currents in cellulose acetate thermo-electrets. *Indian J. Pure Appl. Phys.* 14 (1976) 93
- VASILEV, V. P., KOKURIN, N. I., VASILEVA, V. N.: Enthalpy of formation of Sn^{2+} and SnCl^+ ions in aqueous solutions. *Zh. Neorg. Khim.* 21 (1976) 407 (In Russian)
- VASILIEV, L. N., LUGUEV, S. M., OSKOTSKII, V. S., SMIRNOV, I. A. (A. F. Joffe Engn. Phys. Inst., Leningrad, USSR): Some peculiarities of thermal conductivity of $\text{Pr}_3\text{Te}_4 - \text{Pr}_2\text{Te}_3$ system. *Fiz. Tverd. Tela* 18 (1976) 906 (In Russian)
- VEIDERMA, M. A., PYLDME, Y. K. (Tallin Polytech. Inst., Tallin, EsSSR): The composition of thermal dehydration products of monocalcium phosphate. *Zh. Neorg. Khim.* 21 (1976) 10 (In Russian)
- VENTURINI, E. L., RICHARDS, P. M. (Sandia Labs., Albuquerque, N.M., 87115 USA): Temperature-induced magnetization reversal in an amorphous ferrimagnet. *J. Appl. Phys.* 47 (1976) 1632
- VERESHCHAGIN, L. F., FATEEVA, N. S., MAGNITSKAYA, M. V. (Acad. Sci. USSR, High Pressure Phys. Inst., Moscow, USSR): Melting curve of rhenium up to 80 kbar. *JETP Lett. transl. Pisma Zh. Eksp. Teoret. Fiz.* 22 (1975) 106
- VIDYARTH, S. K., WILLIS, C., BACK, R. A. (c/o C. Willis, Natl. Res. Council Canada, Chem. Div., Ottawa, Ontario, Canada): Thermal and photochemical decomposition of methyldiimide in the gas phase. *J. Phys. Chem.* 80 (1976) 559
- VINOGRADOV, I. V., KONAREV, M. I., ZAIT-

- SEVA, L. L., SHEPELKOV, S. V.: Thermal stability of ammonium hexachlorotechnetates and hexabromotechnetates. *Zh. Neorg. Khim.* 21 (1976) 131 (In Russian)
- VLADIMIR, M. I., MOSCALENKO, V. A. (Acad. Sci. MoSSR, Appl. Phys. Inst., Kishinev, MoSSR): Thermal conductivity of two-band superconductors. *Theor. Math. Phys. transl. Theoretichesk. Matemat. Fiz.* 23 (1975) 382
- VUČELIĆ, V., DONDUR, V., DJURĐEVIĆ, R., VUČELIĆ, D. (Inst. Chem. Technol. and Met., Belgrade, Yugoslavia): An analysis of elementary processes of water desorption from zeolites of type A. I. Zeolites with monovalent counterions. *Thermochim. Acta* 14 (1976) 341
- WANG, E. Y. (Wayne State Univ., Dept. Elect. Engn., Detroit, Mich., 48202 USA): Latent heat measurement of phase transformations in potassium nitrate. *J. Electrochem. Soc.* 123 (1976) 435
- WARFIELD, R. W., KAYSER, E. G. (USN Surface Weap Ctr., Dept. Chem. Res., Silver Spring, Md., USA): Specific heat of phenolic polymer. *J. Macromol. Sci. B* 11 (1975) 325
- WEISZ, H., PANTEL, S., MEINERS, W. (Univ. Freiburg, Lehrstuhl Anal. Chem., Chem. Lab., Freiburg, GFR): Eine thermometrisch-kinetische Methode zur Bestimmung von Kupfer und Cyanid mit Hilfe der Kupfer-katalysierten Zersetzung von Wasserstoffperoxid. *Anal. Chim. Acta* 82 (1976) 145
- WENDLING, L. A., BERGMAN, R. G. (c/o R. G. Bergman, Caltech. Labs. Chem., Pasadena, Calif., 91115 USA): Thermal decomposition of 24-azirines. Formation of products resulting from carbon-carbon bond cleavage. *J. Org. Chem.* 41 (1976) 831
- WESTRUM, E. F., HENRIQUEZ, S. (Univ. Michigan, Dept. Chem., Ann Arbor, Mich., 48104 USA): Interphase transitions and thermophysics of ortho and meta-carboranes. *Mol. Cryst. Liquid Cryst.* 32 (1976) 31
- WIELKE, B. (Univ. Wien, Phys. Inst. 2, Boltzmann-gasse 5, A-1090 Wien, Austria): A variable temperature, tensile testing cryostat. *Cryogenics* 16 (1976) 110
- WILSON, T., GOLAN, D. E., HARRIS, M. S., BAUMSTARK, A. L. (Harvard Univ., Biol. Labs., Cambridge, Mass., 02138 USA): Thermolysis of tetramethoxy- and p-dioxenedioxetanes. Kinetic parameters, chemiluminescence, and yields of excited products. *J. Amer. Chem. Soc.* 98 (1976) 1086
- WU, R. S., CHENG, K. C. (Univ. Alberta, Dept. Mech. Engn., Edmonton, Alberta, Canada): Maximum density effects on thermal instability induced by combined buoyancy and surface tension. *Int. J. Heat Mass Transfer* 19 (1976) 559
- WYPYCH, J. (Cent. Lab. Tech. Prod., Chem. Dept., Łódź, Poland): Reactivity of PVC thermal stabilizers with hydrogen chloride in alcoholic solutions. *J. Appl. Polym. Sci.* 20 (1976) 557
- YALAMOV, Y. I., SHCHUKIN, E. R., VASI'LEVA, L. Y. (Kalinin State Univ., Moscow, USSR): On the thermo-diffusiophoresis capture of aerosol particles by cloud drops. *Fiz. Atmos. Okeana* 12 (1976) 211 (In Russian)
- YANG, S. K., GÓMEZ-IBAÑEZ, J. D. (Wesleyan Univ., Dept. Chem., Hall Atwater Labs., Middletown, Conn., 06457 USA): The excess enthalpies of cyclohexane + n-dodecane and + n-nonane. *J. Chem. Thermodyn.* 8 (1976) 209
- YASUHIRA, T., MORIKAWA, T., SHIMADA, J., SAKURAI, K. (Electrotech. Lab., Tanashi, Tokyo, Japan): Thermally induced bubblelike patterns in Fe-doped LiNbO₃ single crystals. *J. Appl. Phys.* 47 (1976) 1229
- YAVIN, Y., FRIEDMAN, M. (Ben Gurion Univ. Negev, Dept. Elect. Engn., Beer-Sheva, Israel): On the suboptimal control of a heat conduction process. *Int. J. Syst. Sci.* 7 (1976) 337
- YOLDAS, B. E. (Westinghouse Elect. Corp., Res. Labs., Beulah Rd., Pittsburgh, Pa., 15235 USA): Thermal stabilization of an active alumina and effect of dopants on the surface area. *J. Mater. Sci.* 11 (1976) 465
- YOMO, S., MŌRI, N., MITSUI, T. (Tokai Univ., Sapporo Branch, Minami, 060 Sapporo, Japan): Low temperature phase transitions of bismuth under high pressure. *Proc. 4th Int. Conf. High Pressure, Kyoto, 1974*, 300
- YOUNG, J. H., MERTE, H., GATES, G. A.

- (Amer. Sterilizer Co., Erie, Pa., 16512 USA): Analysis of thermal gradients within human temporal bones. *Int. J. Heat Mass Transfer* 19 (1976) 503
- YUKUTAKE, H., SHIMADA, M. (Kyoto Univ., Fac. Sci., Abuyama Seismol. Observ., Takatsuki, 569 Osaka, Japan): Thermal diffusivity of KCl at high pressures and temperatures and its change accompanied with the phase transition. *Proc. 4th Int. Conf. High Pressure, Kyoto 1974*, 362
- YURKEVICH, V. E., ROLOV, B. N. (Litvianian State Univ., Riga, 226098 LaSSR): Thermodynamic formalism of phase transitions in solid solutions. *Czech. J. Phys. B* 26 (1976) 179
- ZAKHAROV, L. S., ERSHOVA, T. D., SVOREN, V. A., MOROZOV, L. L., KABACHNIK, M. I. (Acad. Sci. USSR, Inst. Organoelement. Cpds., Moscow, USSR): Thermal re- arrangement of trimethylsilylmethyl dichlorophosphate. *Bull. Acad. Sci. USSR Div. Chem. Sci. transl. Izv. Akad. Nauk SSSR Khim.* 24 (1975) 1354
- ZIKMUND, M., VALENT, A., HRNČIAROVÁ, K. (Slovak Acad. Sci., Inst. Inorg. Chem., CS-80934 Bratislava, Czechoslovakia): Thermogravimetric investigation of some chloro(pyridine)complexes of titanium(III). *Chem. Zvesti* 29 (1975) 606
- ZIKMUND, M., VALENT, A., HRNČIAROVÁ, K. (Slovak Acad. Sci., Inst. Inorg. Chem., CS-80934 Bratislava, Czechoslovakia): The thermal decomposition of 1,4-dioxan complexes of titanium(III) chloride. *Chem. Zvesti* 29 (1975) 612
- ZVYAGIN, I. P. (M. V. Lomonosov State Univ., Moscow, USSR): Temperature dependence of conductivity and thermo-EMF induced by many-phonon jumpings in unordered semiconductors. *Izv. Vyssh. Uch. Zav. Fiz. SSSR* (1976) 42 (In Russian)