

Bibliography Section

- AARNA, O. A. (Tallin Polytech. Inst., Tallin, EsSSR): Mathematical modeling of pyrolysis of complex mixtures. *J. Appl. Chem. USSR* transl. *Zh. Prikl. Khim.* 52 (1979) 1488
- ABISHOV, V. T., BABANLI, M. B. KULIEV, A. A. (A. Navoya State Univ, Samarkand, UzSSR): The melting heats and melting entropy of the CuTiS and CuTiSe compounds. *Izv. Akad. Nauk Azerb. SSR* (1979) 87 (In Russian)
- ABOU EL ELA, A. H., ELMOUSLY, M. K., ABDU, K. S. (Islamic Girls Coll., Dept. Phys., Nasr City, Egypt): Studies of structural relaxation and crystallization kinetics of $\text{Se}_x\text{Te}_{1-x}$ amorphous system by DTA measurements. *J. Mater. Sci.* 15 (1980) 871
- ADAM, G. A., HUSEIN, N. A. (Univ. Basrah, Coll. Sci., Basrah, Iraq): The thermal properties and solvent stress cracking resistance of some new polyethers. *Thermochim. Acta* 37 (1980) 173
- ADAM, W., DE LUCCHI, O. (Univ. Puerto Rico, Dept. Chem. Rio Piedras, P. R., 00931 USA): Unusual thermal and photochemical transformations of the azo-alkane 2,3 - diaza - 7,8 - benzotricyclo-[4.3.0.0^{4,9}]nona-2,7-diene. *J. Amer. Chem. Soc.* 102 (1980) 2109
- ADAM, W., DEL FIERRO, J., QUIROZ, F., YANY, F. (Univ. Puerto Rico, Dept. Chem., Rio Piedras, P. R., 00931 USA): Singlet oxygenation of ketene acetals: formation of 1,2-dioxetanes and their thermal rearrangement to α -peroxy esters. *J. Amer. Chem. Soc.* 102 (1980) 2127
- ALIEV, M. I., ARASLY, D. G. GUSEINOV, R. E., DZHABBAROV, R. M. (Acad. Sci. AzSSR, Inst. Phys. Baku, AzSSR): Thermal conductivity and thermal diffusivity of eutectics based on InS and GaSb. *Inorg. Mater.* transl. *Izv. Akad. Nauk SSSR Neorg. Mater.* 15 (1979) 1032
- AL-SHUKRY, R. M., JASIM, F. (c/o F. Jasim, Univ. Baghdad, Coll. Sci., Dept. Chem., Baghdad, Iraq): Thermal and X-ray investigation of binary cobalto-cobaltic oxide -- alkali persulfate systems. *Thermochim. Acta* 37 (1980) 97
- ANDERSSON, P., ROSS, R. G. (Univ. Umeå, Dept. Phys., S-90187 Umeå, Sweden): Thermal resistivity, heat capacity and phase diagram of CBr_4 under pressure. *Mol. Phys.* 39 (1980) 1359
- ANDRIANOV, G. O., ZHDANOVA, V. V., SERGEEV, V. P. (A. F. Ioffe Engn. Phys. Inst., Leningrad, USSR): Grüneisen parameter of V_2O_3 metallic phase. *Fiz. Tverd. Tela* 22 (1980) 1249 (In Russian)
- ANGERER, E. V., TANEJA, A. K., RINGSHANDL, R., SCHONENBERGER, H. (c/o H. Schonenberger, Univ. Regensburg, Inst. Pharm., D-8400 Regensburg, GFR): Thermolysis of ortho-chloro-substituted 1,2-diaryl-ethylenediamines. *Liebigs Ann. Chem.* (1980) 409
- ANNIS, G. D., LEY, S. V., SELF, C. R., SIVARAMAKRISHNAN, R. (c/o S. V. Ley, Univ. London, Imperial Coll. Sci. and Technol., Dept. Chem., London, SW7 1 2AY, England): Thermal decomposition of tricarbonyliron lactone complexes. *J. Chem. Soc. Chem. Commun.* (1980) 299
- ARSENOV, V. D., MARKULOV, E. I., CHERNOV, G. M., ERMAKOVA, V. D., LYUBIMOV, A. V., VANNIKOV, A. V., CHERKASHIN,

- M. I. (Acad. Sci. USSR, Inst. Chem. Phys., Moscow, V-71 USSR): The thermal decolorization of photochrome copolymers of indolinospiropyran. *Bull. Acad. Sci. USSR Div. Chem. Sci. transl. Izv. Akad. Nauk SSSR Ser. Khim.* 28 (1979) 1394
- AST, D. G., BRODSKY, M. H. (Cornell Univ., Dept. Mat. Sci. and Engrn., Ithaca, N. Y., 14853 USA): Thickness and temperature dependence of the conductivity of phosphorusdoped hydrogenated amorphous silicon. *Phil. Mag.* 41 (1980) 273
- AZUMA, C., SANUI, K., OGALA, N. (Sophia Univ., Fac. Sci. and Technol., Dept. Chem., Chiyoda-ku, Tokyo, 102 Japan): An evaluation of the dependence of the photosensitivity on the glass-transition temperature of the rubbers having cianamoyl group. *Jap. Polym. Sci. Techn.* 37 (1980) 207 (In Japanese)
- BABATOV, D. A. (C. Ildrym Politech. Inst. Baku, AzSSR): The decision of the heat conductivity problem for the viscous incompressible liquid. *Izv. Akad. Nauk Azerb. SSR* (1979) 127 (In Russian)
- BAGARAT'YAN, N. V., NIKITIN, O. T., GOROKHOV, L. N. (M. V. Lomonosov State Univ., Dept. Phys. Chem., Moscow, 117234 USSR): The thermal dissociation of boron trioxide and enthalpy of formation of the BO_2 molecule. *Vestn. Mosk. Univ.* 21 (1980) 139 (In Russian)
- BALLISTRERI, A., FOTI, S., MONTAUDO, G., SCAMPORRINO, E. (c/o G. Montaudo, Univ. Catania, Ist. Dipartimentale Chim. e Chim. Ind., I-95125 Catania, Italy): Evolution of aromatic compounds in the thermal decomposition of vinyl polymers. *J. Polym. Sci.* 18 (1980) 1147
- BARKALOV, I. M., KIRYUKHIN, D. P. (Acad. Sci. USSR, Inst. Chem. Phys., Chernogolovka, USSR): The study of polymerization in solid and viscous media using calorimetry method. *Vysokomol. Soedin. A* 22 (1980) 723 (In Russian)
- BASSI, P. S., KHAJURIA, C. M. (Univ. Jammu, Dept. Chem., Jammu, 180001 India): Thermal decomposition of copper(II) glutarate trihydrate. I. The mechanism of dehydration of copper(II) glutarate trihydrate. *Thermochim. Acta* 37 (1980) 179
- BATDALOV, A. B., REDKO, N. A. (A. F. Ioffe Engn. Phys. Inst., Leningrad, USSR): Lattice and electron thermoconductivity of pure tungsten at low temperature. *Fiz. Tverd. Tela* 22 (1980) 1141 (In Russian)
- BELOUSOV, O. K. (A. A. Baikov Met. Inst., Moscow, USSR): Effect of heat treatment and deviation from stoichiometry on the structure and physical properties of titanium nickelide. *Metal Sci. Heat Treatment transl. Metalloved. Term. Obr. Met.* 21 (1979) 557
- BENDER, R., BIER, K., MAURER, G. (Univ. Karlsruhe, Inst. Tech. Thermodynam. und Kältetech., D-7500 Karlsruhe, FRG): Heat capacity at constant pressure and Youle-Thomson coefficient of monochloro-1,2,2,2-tetrafluoroethane. *J. Chem. Thermodyn.* 12 (1980) 335
- BERGK, K. H., WOLF, F., SPECHT, H. (Martin Luther Univ., Sekt. Chem., Wissensch. Bereich Tech. Chem., DDR-402 Halle, GDR): Zur thermischen Stabilität des Systems HgCl_2 -Zeolith. *Z. Chem.* 20 (1980) 113
- BERTON, A., CHAUSSY, J., CORNUT, B., LASJAUNIAS, J. L., ODIN, J., PEYRARD, J. (Univ. Sci. et Med. Grenoble, Ctr. Rech. Tres. Basses, Temp. CNRS, F-38042 Grenoble, France): Specific heat of $\text{Ce}_3\text{Al}_{11}$ and CeAl_3 compounds. *J. Magn. Magn. Mater.* 15 (1980) 379
- BERTRAND, G., COMPERAT, M., LALLEMAND, M., WATELLE, G. (Fac. Sci. Mirande, CNRS, Rech. React. Solides Lab., B.P. 138, F-21004 Dijon, France): Endothermic decompositions of inorganic monocrystalline thin plates. I. Shape of polycrystalline product domains versus constraints and time. *J. Solid State Chem.* 32 (1980) 57
- BERTRAND, G., LALLEMAND, M., MOKHLISSE, A., ROUDERGUES, N. (Fac. Sci. Mirande, CNRS, Rech. React. Solides Lab., B.P. 138, F-21004 Dijon, France): New results on the dependence of the pressure of its vapour. *Thermochim. Acta* 38 (1980) 67
- BLACKLOCK, K., WHITE, H. W., HARDMAN, K., JAMES, W. J. (c/o H. W. White, Univ. Missouri, Dept. Phys., Columbia, Mo., 65211 USA): Low temperature specific heat of Y_6Mn_{23} . *J. Chem. Phys.* 72 (1980) 2883
- BLAHA, H., BOLLER, H. (c/o H. Boller, Wien Univ., Inst. Phys. Chem., A-1090 Wien,

- Austria): Thermogravimetrische Untersuchungen an zeolithischen Erdalkalithioferraten (III). *Monatsh. Chem.* 111 (1980) 475.
- BORDAS, S., GELI, M., CASAS-VAZQUEZ, J., CLAVAGUERA, N., CLAVAGUERA-MORA, M. T. (Univ. Autonoma Barcelona, Fac. Ciencias, Dept. Termol., Bellaterra, Barcelona, Spain): Phase diagram of the ternary system Ge—Te—Se. *Thermochim. Acta* 37 (1980) 197.
- BOUWSTRA, J. A., BROUWER, N., VAN GENDEREN, A. C. G., OONK, H. A. J. (c/o H. A. J. Oonk, State Univ. Utrecht, Gen. Chem. Lab., Chem. Thermodynam. Grp., Utrecht, Netherlands): A thermodynamic method for the derivation of the solidus and liquidus curves from a set of experimental liquidus points. *Thermochim. Acta* 38 (1980) 97.
- BRAR, A. S., SANDHU, H. S., SANDHU, S. S. (c/o S. S. Sandhu, Guru Nanak Dev. Univ., Dept. Chem., Amritsar, 143005 Punjab, India): Studies on thermal decomposition of tin(IV) ferrocyanide. *Indian J. Chem. A* 18 (1979) 382.
- BRAUER, H. D., DREWS, W., SCHMIDT, R. (Univ. Frankfurt, Inst. Phys. Chem., Robert-Mayer-Str. 11, D-6000 Frankfurt, 70 GFR): Ein neues photochromes System von ungewöhnlich hoher thermischer Stabilität. *J. Photochem.* 12 (1980) 293.
- BRAZIER, D. W., NICKEL, G. H., SZENT-GYÖRGYI, Z. (Sheridan Pk. Res. Community, Dunlop Res. Ctr., Mississauga, Ontario, Canada): Enthalpic analysis of vulcanization by calorimetry. Thiuram monosulfide/sulfide vulcanization of NR and SBR. *Rubber Chem. Technol.* 53 (1980) 160.
- BRETHEAU, T., CASTAING, J., RABIER, J., VEYSSIÈRE, P. (CSP, Ave. J. B. Clement, F-94430 Villetteaneuse, France): Mouvement des dislocations et plasticité à haute température des oxydes binaires et ternaires. *Advan. Phys.* 28 (1979) 835.
- BREWER, L., LAMOREAUX, R. H. (Univ. Calif., Berkeley Lawrence Berkeley Lab., Div. Mat. and Molec. Res., Berkeley, Calif., 94720 USA): Thermochemical properties. *At. Energy Rev.* (1980) 11.
- BRUNEAU, C., SOYER, N., BRAULT, A. (Ecole Natl. Sup. Chim. Rennes, Chim. Organ. Lab., Ave. Gen. Leclercq, F-35000 Rennes, France): Analysis of the compounds formed by pyrolysis and combustion of some monoethers of ethylene and diethylene-glycol. *Analisis* 8 (1980) 102.
- BURGEMEISTER, E. A., AMMERLAAN, C. A. J. (Drukker and ZN, NV Sarphalikade 12, NL-1017 WV Amsterdam, Netherlands): High-temperature thermal conductivity of electron irradiated diamond. *Phys. Rev. B* 21 (1980) 2499.
- BYDLINSKAYA, I. N., NASKIDASHVILI, N. A., MELIK-SAKHNAZAROV, V. A., SAVIN, V. I. (Acad. Sci. GeSSR, Inst. Phys., Tbilisi, GeSSR): New low-temperature phase transformation in zirconium hydride. *Fiz. Tverd. Tela* 22 (1980) 886 (In Russian).
- CARFAGNA, C., BUSICO, V., SALERNO, V., VACATELLO, M. (Univ. Napoli, Ist. Chim., Via Mezzocannone 4, I-80100 Napoli, Italy): Melting behaviour of a series of monoamides. *Thermochim. Acta* 37 (1980) 31.
- CARLSSEN, L., EGSGAARD, H. (Risø Natl. Lab., Dept. Chem., DK-4000 Roskilde, Denmark): An effective approach to flash vacuum thermolytic studies. *Thermochim. Acta* 38 (1980) 47.
- CASTANET, R. (CNRS, Ctr. Thermodynam. et Microcalorimetrie, F-13003 Marseille, France): Comments on calorimetric determination of equilibrium phase diagrams of inorganic systems. *Thermochim. Acta* 37 (1980) 259.
- CHARBONNIER, F., FAURE, R., LOISELEUR, H. (Univ. Lyon, 1 Chim. Analyt. Lab., 2, F-69621 Villeurbanne, France): Study of methanedisulfonic acid compounds: crystalline structure and thermal behavior of $\text{Ca}(\text{SO}_3\text{CH}_2\text{SO}_3) \cdot 3 \text{H}_2\text{O}$ and $\text{Cd}(\text{SO}_3\text{CH}_2\text{SO}_3) \cdot 3 \text{H}_2\text{O}$. *Rev. Chim. Miner.* 16 (1979) 555.
- CHATTOPADHYAY, G., CHANDRASEKHARAIAH, M. S. (Bhabha Atom Res. Ctr., Div. Chem., Bombay, 400085 India): On the thermal stability of UNF. *J. Nucl. Mater.* 89 (1980) 198.
- CHIRICO, R. D., WESTRUM, E. F. (Univ. Illinois, Dept. Chem., Chicago, Ill., 60680 USA): Thermophysics of the lanthanide trihydroxides. II. Heat capacities from 10 to 350K of $\text{Nd}(\text{OH})_3$ and $\text{Tb}(\text{OH})_3$.

- Lattice and Schottky contributions. *J. Chem. Thermodyn.* 12 (1980) 311
- CHIRWA, M., LUNGRÉN, L., NORDBLAD, P., BECKMAN, O. (Univ. Uppsala, Inst. Technol., Dept. Solid State Phys., S-75105 Uppsala, Sweden): Magnetic specific heat of FeF_2 near T_N . *J. Magn. Magn. Mater.* 15 (1980) 457
- CLAUDY, P., BONNETOT, B., CHAHINE, G., LETOFFE, J. M. (Inst. Natl. Sci. Appl. Lyon, CNRS Thermochim. Minerale Lab., 116, 20 Ave. Albert Einstein, F-69621 Villeurbanne, France): Etude du comportement thermique du tetrahydroaluminate de sodium NaAlH_4 et de l'hexahydro-aluminate de sodium Na_3AlH_6 de 298 à 600K. *Thermochim. Acta* 38 (1980) 75
- CLIFFORD, A. A., KESTIN, J., WAKEHAM, W. A. (Univ. Leeds, Dept. Phys. Chem., Leeds LS2 9YT, W. Yorkshire, England): A further contribution to the theory of the transient hot-wire technique for thermal conductivity measurements. *Physica A* 100 (1980) 370
- COLLINS, J. G., WHITE, G. K., BIRCH, J. A., SMITH, T. F. (CSIRO, Div. Appl. Phys., Sydney 2070, Australia): Thermal expansion of ZnTe and HgTe and heat capacity of HgTe at low temperatures. *J. Phys. C* 13 (1980) 1649
- CRIADO, J. M., MALET, P., MUNUERA, G., RIVES-ARNAU, V. (Univ. Seville, Fac. Chem., Dept. Inorgan. Chem., Seville, Spain): Study of the "shape index" in the analysis of temperature-programmed desorption curves. *Thermochim. Acta* 38 (1980) 37
- CRIADO, J. M., ROUQUEROL, F., ROUQUEROL, J. (Univ. Seville, Fac. Chem., Dept. Inorgan. Chem., Seville, Spain): Thermal decomposition reactions in solids: comparison of the constant decomposition rate thermal analysis with the conventional TG method. *Thermochim. Acta* 38 (1980) 109
- CRIADO, J. M., ROUQUEROL, F., ROUQUEROL, J. (Univ. Seville, Fac. Ciencias, Dept. Quim. Inorgan., Seville, Spain): Study of the thermal decomposition reaction mechanism of alkaline-earth carbonates under high vacuum by both thermogravimetric analysis and constant decomposition rate thermal analysis techniques. *Thermochim. Acta* 38 (1980) 117
- CZARNOTA, I., TABAKA, A. (Polish Acad. Sci., Inst. Phys. Chem., PL-01224 Warsaw, Poland): Evaluation of the total heat capacity of a constant temperature environment calorimeter with nonlinear heat transfer. *Bull. Acad. Pol. Sci.* 27 (1979) 489
- DALY, N. J., ZIOLKOWSKI, F. (Australian Natl. Univ., Dept. Chem., Canberra, 2600 ACT, Australia): The thermal decomposition of carbamates. IV. The ethyl-N-methyl carbamate system. *Int. J. Chem. Kinet.* 12 (1980) 241
- D'ASCENZO, G., CURINI, R., CARUNCHIO, V., AMATO, R., SAMBENEDETTO, A. (Univ. Rome, Inst. Analys. Chem., I-00100 Rome, Italy): Characterisation of apical granulomas by differential scanning calorimetry. *Thermochim. Acta* 37 (1980) 333
- DEBORD, J., LABADIE, M., BRETON, J. C. (Fac. Med. et Pharm. Limoges, Biochim. Med. Lab., 2 Rue DR. R. Marcland, F-87032 Limoges, France): Microcalorimetric assay of phosphonate esterase activity. *Analisis* 8 (1980) 93
- DIXON, G. S., BENEDICT, V., RIVES, J. E. (Oklahoma State Univ., Dept. Phys., Stillwater, Okla., 74074 USA): Low temperature thermal conductivity of antiferromagnetic $\text{MnCl}_2 \cdot 4 \text{ H}_2\text{O}$. *Phys. Rev. B* 21 (1980) 2865
- DIXON, M., GILLAN, M. J. (Univ. Oxford, Dept. Theoret. Phys., Oxford, OX1 3NP England): Molecular dynamics simulation of fast-ion conduction in SrCl_2 . II. Distribution of ions and specific heat anomaly. *J. Phys. C* 13 (1980) 1919
- DOLGII, I. E., SHAPIRO, E. A., LUN'KOVA, G. V., NEFEDOV, O. M. (N. D. Zelinskii Organ. Chem. Inst., Moscow, USSR): Intramolecular cyclization of alkoxycarbonylcarbenes during thermal decomposition of alkyl diazoacetates. *Bull. Acad. Sci. USSR Div. Chem. Sci. transl. Izv. Akad. Nauk SSSR Khim.* 28 (1979) 1527
- DOLLIMORE, D. (Univ. Salford, Dept. Chem. and Appl. Chem., Salford, M5 4WT Lancashire, England): The effect of heat treatment on the adsorption properties of solids. I. Introduction. *Thermochim. Acta* 38 (1980) 1
- DOLLIMORE, D., SPOONER, P., TURNER, A. (Univ. Salford, Dept. Chem. and Appl.

- Chem., Salford, M5 4WT Lancashire, England): The effect of heat treatment on the adsorption properties of solids. II. The effect of heat treatment on the character of the adsorption isotherm. *Thermochim. Acta* 38 (1980) 15
- DONCHEVA, E. F., FATKHULLAEV, É., DZHAILOV, A. T., ASKAROV, M. A. (A. R. Beruni Polytech. Inst., Tashkent, UzSSR): Investigation of thermal and chemical stability of cation-exchangers synthesized from gossypol resin and salicylaldehyde. *J. Appl. Chem. USSR transl. Zh. Prikl. Khim.* 52 (1979) 1514
- DROEGE, T. F., HIBBARD, M. C., NELSON, C. A., THOMSON, P. A., MAKDISI, Y., LIPTON, R. (Fermi Natl. Accelerator Lab., Batavia, Ill., 60510 USA): Design and operating experience with electronic systems for high rate liquid argon calorimeters. *IEEE Trans. Nucl. Sci.* 27 (1980) 64
- DUBEY, K. S. (Univ. Basrah, Coll. Sci., Dept. Phys., Basrah, Iraq): Characteristic temperature Θ^* and lattice thermal conductivity of a doped sample: application to P-doped Ge. *Solid State Commun.* 33 (1980) 979
- DUNN, J. G., STURMAN, B. T., VAN BRONSWIJK, W. (Western Australian Inst. Technol., Dept. Chem., Perth, 6102 W. Australia, Australia): The determination of gypsum and lime in small samples of set plaster by a DSC-computer method. *Thermochim. Acta* 37 (1980) 337
- DZHAVADOV, L. N., KROTOV, Y. I. (Acad. Sci. USSR, Inst. High Pressure Phys., Akademgorodok, USSR): Pressure dependence of Grüneisen parameter in the phase transition region of RbCl. *Fiz. Tverd Tela* 22 (1980) 1245 (In Russian)
- DZYUBA, E. D., MELNIKOVA, R. Y., PECHKOVSKII, V. V., KOVALISHINA, V. I., IVKOVICH, N. A., CHUBAROV, A. V. (S. M. Kirov Technol. Inst., Minsk, BeSSR): Thermal dehydration of alpha-modifications and beta-modifications of SrHPO₄. *Zh. Neorg. Khim.* 25 (1980) 675 (In Russian)
- EISMAN, G. A., REIFF, W. M. (c/o W. M. Reiff, Northeastern Univ., Dept. Chem., Boston, Mass., 02115 USA): Solid state displacement reactions of transition metal polymers. A calorimetry study of some bis-pyridyl transition metal chlorides. *Inorg. Chim. Acta Lett.* 44 (1980) L 171
- EL-AKKAD, T. M. (Ain Shams Univ., Fac. Sci., Dept. Chem., Cairo, Egypt): Effect of thermal dehydration on surface characteristics of titania gel. *Thermochim. Acta* 37 (1980) 269
- EL-AKKAD, T. M. (Ain Shams Univ., Fac. Sci., Dept. Chem., Cairo, Egypt): Effect of addition of some oligomers on the surface characteristics of alumina. *Thermochim. Acta* 37 (1980) 279
- ELDAROV, V. S. (Baku Instrument Making Plant, Baku, AzSSR): Thermoconductivity of aqueous salt solutions. *Zh. Fiz. Khim.* 54 (1980) 606 (In Russian)
- ENNAN, A. A., DZERZHKO, E. K., NIKITIN, V. I., GARNOVSKII, A. D. (I. I. Mechnikov State Univ., Odessa, UkrSSR): Study of thermochemical transformations of compounds of silicon tetrafluoride and fluorosilicic acid with imidazole and its derivatives. *Zh. Neorg. Khim.* 25 (1980) 729 (In Russian)
- FERRILLO, R. G., GRANZOW, A. (Amer. Cyanamid Co., Div. Chem. Res., Bound Brook, N. J., 08805 USA): A thermogravimetric study of the flame retardant system cyagard® RF-1/ammonium polyphosphate. *Thermochim. Acta* 38 (1980) 27
- FILLION, G., COX, D., KURTZ, R., GIORDANO, N., WOLF, W. P. (Yale Univ. Becton Ctr., Dept. Engn. and Appl. Sci., New Haven, Conn., 06520 USA): Low temperature heat capacity of Pr(OH)₃. *J. Magn. Magn. Mater.* 15 (1980) 23
- FINCH, A., GATES, P. N., PAGE, T. H. (Univ. London, Royal Holloway Coll., Bourne Lab., Egham TW20 OEX, Surrey, England): Studies of nitrosyl compounds. I. Thermochemistry of nitrosonium tetrachloroborate. *J. Inorg. Nucl. Chem.* 42 (1980) 292
- FINLAYSON, D. M., MASON, P., ROGERS, J. N., GREIG, D. (Univ. St. Andrews, Dept. Phys., St. Andrews, KY16 9ST Fife, Scotland): The thermal conductivity and specific heat of extruded polyethylene below 1K. *J. Phys. C* 13 (1980) L 185
- FISCHBACH, H. (Tech. Univ. Clausthal, Inst. Theoret. Met., D-3392 Clausthal, GFR): Elektrochemisch kontrollierte Diffe-

- rentialthermoanalyse. *Z. Phys. Chem.* 118 (1979) 69
- FISCHER, P., POLOMSKA, M., SOSNOWSKA, I., SZYMAŃSKI, M. (ETH Zürich, Inst. Reaktortech., CH-5303 Würenlingen, Switzerland): Temperature dependence of the crystal and magnetic structures of BiFeO_3 . *J. Phys. C* 13 (1970) 1931
- FLAMANT, G. (Lab. Energet. Solaire, BP 5, F-66120 Font Romeu, France): Experimental results of solar thermochemistry at high temperatures. Some application prospects. *Rev. Phys. Appl.* 15 (1980) 503
- FLEROV, I. N., ISKORNEV, I. M., ALEKSANDROV, K. S., VORONOV, V. N. (L. V. Kirenskii Phys. Inst., Krasnoyarsk, USSR): Thermal properties of CsPbF_3 crystal. *Fiz. Tverd. Tela* 22 (1980) 912 (In Russian)
- FLYNN, J. H. (NBS, Div. Polymer Sci. and Stand., Washington, D. C., 20234 USA): The effect of heating rate upon the coupling of complex reactions. I. Independent and competitive reactions. *Thermochim. Acta* 37 (1980) 225
- FORGAN, E. M., NEDJAT, S. (Univ. Birmingham, Dept. Phys., Birmingham, B15 2TT W. Midlands, England): Heat capacity cryostat and novel methods of analysis for small specimens in the 1,5–10K range. *Rev. Sci. Instr.* 51 (1980) 411
- FOUQUE, Y., BROS, J. P., GAUNE-ESCARD, M. (Univ. Aix Marseille, 1 Ctr. St. Jerome CNRS, Dynam. et Thermophys. Fluides Lab., F-13397 Marseille, France): UBr_4 compound: determination of high temperature phase transitions for electrical conductivity and calorimetric measurements in the temperature range 715–930K. *J. Inorg. Nucl. Chem.* 42 (1980) 257
- FRANKS, F. (Univ. Cambridge, Sch. Bot., Cambridge, England): Thermodynamics and thermo-chemistry of systems of biological significance. *Chim. Ind.* 61 (1979) 904
- FRANZOSINI, P., SANESI, M., CINGOLANI, A., FERLONI, P. (Univ. Pavia, Ist. Chim. Fis. ed Elettrochim., CNR, Viale Taramelli 16, I-27100 Pavia, Italy): On the thermal behaviour of the $n\text{C}_{13} - n\text{C}_{20}$ lithium soaps. *Z. Naturforsch. A* 35 (1980) 98
- FRUCHART, D., L'HERITIER, P., FRUCHART, R. (Cristallogr. Lab. 166 X, F-38042 Grenoble, France): Transformations de phase dans les nitrures et carbures du manganèse de structure type Pérovskite. *Mater. Res. Bull.* 15 (1980) 415
- FRURIP, D. J., CURTISS, L. A., BLANDER, M. (Argonne Natl. Lab., Div. Chem. Engr., Argonne, Ill., 60439 USA): Vapor phase association in acetic and trifluoroacetic acids. Thermal conductivity measurements and molecular orbital calculations. *J. Amer. Chem. Soc.* 102 (1980) 2610
- FUJITA, T., SUZUKI, M., ISIKOWA, Y. (Tokushima Univ., Fac. Pharmaceut. Sci., Tokushima, 770 Japan): Specific heat of EuB_6 . *Solid State Commun.* 33 (1980) 947
- FURMANSKI, W., POKORSKI, S. (CERN, CH-1211 Geneva, 23 Switzerland): Sensitive tests of QCD in large p_T calorimeter measurements. *Nucl. Phys.* 165 (1980) 365
- GABRIEL, T. A., BISHOP, B. L. (Oak Ridge Natl. Lab., Oak Ridge, Tenn., 37830 USA): Calculated response of a total liquid argon calorimeter to protons and electrons in the 0.5–5.0 GeV energy range. *Nucl. Instr. Methods* 169 (1980) 427
- GACHAN, J. C., NOTIN, M., CUNAT, C., HERTZ, J., PARLEBAS, J. C., MORAITIS, G., STUPFEL, B., GAUTIER, F. (Univ. Nancy, 1 Lab. Thermodynam. Met. Lab., F-54037 Nancy, France): Enthalpy of formation and excess entropy for dilute copper-based alloys. Experimental and theoretical study. *Acta Met.* 28 (1980) 489
- GALLAGHER, P. K., COLEMAN, E., JIN, S., SHERWOOD, R. C. (Bell Tel. Labs. Inc., Murray Hill, N. J., 07924 USA): Some applications of thermomagnetometry to the study of chromindur alloys. *Thermochim. Acta* 37 (1980) 291
- GARTI, N., SARIG, S., WELLNER, E. (Hebrew Univ. Jerusalem, Sch. Appl. Sci. and Technol., Casali Inst. Appl. Chem., Jerusalem, 91000 Israel): Determination of the composition of mixtures of fatty acid polymorphs by DTA. *Thermochim. Acta* 37 (1980) 131
- GAUR, U., WUNDERLICH, B. (c/o B. Wunderlich, Rensselaer Polytech. Inst., Dept. Chem., Troy, N. Y., 12181 USA): The glass transition temperature of polyethylene. *Macromolecules* 13 (1980) 445
- GERTH, B., SAHLING, A., POMPE, G., HEGENBARTH, E., BREZINA, B. (Tech. Univ. Dresden, Sekt. Phys., DDR-8027 Dresden, GDR): Specific heat capacity of li-

- thium-thallium tartrate at low temperatures. *Phys. Status Solidi A* 57 (1980) K 153
- GOLTZENE, A., POIBLAUD, G., SCHWAB, C. (Univ. Louis Pasteur, CNRS, Spect. et Opt. Corps. Solide Lab., 232, F-67000 Strasbourg, France): Thermal treatment effects on Cr centers in GaAs : Cr. *Rev. Phys. Appl.* 15 (1980) 675
- GOODMAN, M. S., SESSIONS, A. L., GABRIEL, T. A., BISHOP, B. L., EISENSTEIN, B., WRIGHT, S. C., KEPHART, R. D. (Harvard Univ., High Energy Phys. Lab., Cambridge, Mass., 02138 USA): Monte-Carlo simulation of actual segmented calorimeter study of calorimeter performance at high energies. *IEEE Trans. Nucl. Sci.* 27 (1980) 46
- GREGORY, I. P., MOODY, D. E. (Sperry Gyroscope, Bracknell, England): Low temperature specific heat and magnetization of some cobalt based alloys. *J. Magn. Magn. Mater.* 15 (1980) 281
- GRiffin, A. C., HAVENS, S. J. (Univ. So. Mississippi, Dept. Chem., Hattiesburg, Miss., 39401 USA): Phase studies of polymer/small-molecule liquid-crystalline mixtures by differential scanning calorimetry. *J. Polym. Sci. Polym. Lett. Ed.* 18 (1980) 259
- GRIFFITHS, J. E., DISTEFANO, D., SUNDER, W. A. (Bell Tel. Labs. Inc., Murray Hill, N. J., 07974 USA): Raman study of the thermal decomposition of dioxygenyl hexafluoroarsenate, $O_2^+ASF_6^-$. *J. Raman Spectr.* 9 (1980) 67
- GRIPENBERG, H., SEETHARAMAN, S., STAFFANSSON, L. I. (Jernkontoret, Box 1721, S-11187 Stockholm, Sweden): Enthalpies of mixing in MgO—MnO solid solutions. *Chem. Scr.* 13 (1979) 162
- GROMOVA, V. V., CHURBAKOVA, E. G., YUTINA, G. A., IL'INA, T. V., EKIMOVA, L. A., PROSKURYAKOV, V. A., KAGAN, L. K.: Thermal decomposition of neopenetyl laurate. *J. Appl. Chem. USSR transl. Zh. Prikl. Khim.* 52 (1979) 1761
- GUPTA, M. C., SRIVASTAVA, G. J. (Univ. Gorakhpur, Dept. Chem., Gorakhpur, 273001 Uttar Pradesh, India): Thermal studies on poly(4,4'-isopropylidene-diphenyleneephosphorochloridate). *Colloid Polym. Sci.* 258 (1980) 156
- HAFT, R., HEIDE, K. (Univ. Jena, Sekt. Chem., Wissensch. Bereich Glaschem., DDR-69 Jena, GDR): Untersuchung der thermischen Zersetzung von CaF₂ und MgF₂ bei dynamischer Temperaturführung. *Z. Chem.* 20 (1980) 111
- HAINES, H. R., HALL, R. O. A., LEE, J. A., MORTIMER, M. J., McELROY, D. (AERE, Div. Chem., Harwell OX11 ORA, Oxfordshire, England): The low temperature specific heats of 3 plutonium carbides. *J. Nucl. Mater.* 88 (1980) 261
- HAKALA, M. R., ROSENHOLM, J. B., STENIUS, P. (c/o P. Stenius, Swedish Inst. Surface Chem., BOX 5607, S-11486 Stockholm, Sweden): Thermodynamics of micellization and solubilization in the system water + sodium n-octanocete + n-pentanol at 25 °C. 1. Partial molar enthalpies. *J. Chem. Soc. Faraday Trans. I*, 76 (1980) 473
- HANAFI, S., ABO-EL-ENEIN, S. A., IBRAHIM, D. M., EL-HEMALY, S. A. (Ain Shams Univ., Fac. Sci., Cairo, Egypt): Surface properties of silicas produced by thermal treatment of rice-husk ash. *Thermochim. Acta* 37 (1980) 137
- HARRIS, J. M., DOVICH, N. J. (Univ. Utah, Dept. Chem., Salt Lake City, Utah, 84112 USA): Thermal lens calorimetry. *Anal. Chem.* 52 (1980) 695 A
- HAUCK, D., MULLER, F. (Rhein. Westfal. T. H. Aachen, Inst. Gesteinshüttenkunde, D-5100 Aachen, GFR): Thermochemistry of MgO—B₂O₃ system. *Z. Phys. Chem.* 118 (1979) 79
- HAY, J. N., FITZGERALD, P. A. (Univ. Birmingham, Dept. Chem., Birmingham, B15 2TT, W. Midlands, England): Temperature drop turbidity. *J. Polym. Sci.* 18 (1980) 1079
- HEDA, B. D., KHADIKAR, P. V. (Univ. Indore, Dept. Chem., Indore 452001 India): Analytical and TG, DTG, DTA studies of transition metal complexes of salicylic acid. *Bull. Soc. Chim. Belg.* 89 (1980) 1
- HEILMAN, J. L., MOORE, D. G. (S. Dakota State Univ., Remote Sensing Inst., Brookings, S. D., 57007 USA): Thermography for estimating near-surface soil moisture under developing crop canopies. *J. Appl. Meteorol.* 19 (1980) 324
- HERMAN, G. G., GOEMINNE, A. M., HUYS, C. T., SCHAUROECK, J., EECKHAUT, Z. (c/o A. M. Goeminne, State Univ. Ghent,

- Dept. Gen. and Inorgan. Chem., B-9000 Ghent, Belgium): Thermochemical study of the stepwise protonation of 1,10-diaza-4,7-dithiadecane, and its complex formation with copper(II) and nickel(II) ions in aqueous solution. *Thermochim. Acta* 37 (1980) 301
- HERRMANN, J., SANDROCK, R., SPRATTE, W., SCHNEIDER, G. M. (Ruhr Univ. Bochum, Inst. Phys. Chem., Dept. Chem., D-4630 Bochum, GFR): Differential thermal analysis (DTA) and differential scanning calorimetry (DSC) measurements on the tricritical behaviour of the smectic A/cholesteric phase transition of cholesteryl-myristate. *Molec. Cryst. Liquid Cryst.* 56 (1980) 183
- HILL, R. J., SWINTON, F. L. (New Univ. Ulster, Sch. Phys. Sci., Coleraine, North Ireland): The thermodynamic properties of binary mixtures containing carbon disulphide. II. Excess enthalpies. *J. Chem. Thermodyn.* 12 (1980) 383
- HÖLSÄ, J., NIINISTÖ, L. (Helsinki Univ. Technol., Dept. Chem., SF-02150 Ota-niemi, Finland): Thermoanalytical study on the reactions of selected rare earth oxides with ammonium halides. *Thermochim. Acta* 37 (1980) 155
- HORVÁTH, A., MOHAI, B. (Univ. Ind. Chem., Dept. Gen. and Inorgan. Chem., Veszprém, Hungary): Thermoysis of complex cyanides. XIII. Structural transformations at thermal decomposition of $[M(en)_3][M'(CN)_5NO]$ double complexes. *J. Inorg. Nucl. Chem.* 42 (1980) 195
- HOUSE, J. E. (Illinois State Univ., Dept. Chem., Normal, Ill., 61761 USA): A proposed mechanism for the thermal reactions in solid complexes. *Thermochim. Acta* 38 (1980) 59
- HOUSE, J. E., JEPSEN, C. A. (Illinois State Univ., Dept. Chem., Normal, Ill., 61761 USA): Thermal studies on the decomposition of aquopentamminecobalt(III) hexathiocyanotochromate(III). *Thermochim. Acta* 37 (1980) 49
- HRIVIKOVÁ, J., BLAŽKOVÁ, A., LAPČÍK, L. (Slovak Tech. Univ., Inst. Phys. Chem. CS-88037 Bratislava, Czechoslovakia): The influence of the relative molecular weight of natural rubber on its thermo-oxidative stability. *J. Appl. Polym. Sci.* 25 (1980) 761
- HSU, S. C., KOU, S., MEHRABIAN, R. (GTE Labs. Inc., Waltham, Mass., 02154 USA): Rapid melting and solidification of a surface due to a stationary heat flux. *Met. Trans. B* 11 (1980) 29
- HURST, J. R., SCHUSTER, G. B. (c/o G. B. Schuster, Univ. Illinois, Dept. Chem., Roger Adams Lab., Urbana, Ill., 61801 USA): Ozonolysis of diphenylvinylene carbonate. Synthesis and thermolysis of dibenzoyl monoperoxy carbonate. *J. Org. Chem.* 45 (1980) 1053
- IBRAHIM, D. M., EL-HEMALY, S. A., ABDEL-KERIM, F. M. (Natl. Res. Ctr., Cairo, Egypt): Study of rice-husk ash silica by infrared spectroscopy. *Thermochim. Acta* 37 (1980) 307
- IBRAHIM, D. M., EL-HEMALY, S. A., ABO-EL-ENEIN, S. A., HANAFI, S., HELMY, M. (Natl. Res. Ctr., Cairo, Egypt): Thermal treatment of rice-husk ash: effect of time of firing on pore structure and crystallite size. *Thermochim. Acta* 37 (1980) 347
- ILLERS, K. H. (BASF A. G., Mess- und Prüflab., D-6700 Ludwigshafen, GFR): Heat of fusion and specific volume of poly(ethylene terephthalate) and poly(butylene terephthalate). *Colloid Polym. Sci.* 258 (1980) 117
- IMPENS, G., DUPRÉ, A. (Lab. Lage Temp. und Hoge Veldenfys. Celestijnenlaan, 200 D,B-3030 Leuven, Belgium): Specific heat of dilute CuCr and AgCr alloys. *J. Magn. Magn. Mater.* 15 (1980) 81
- INOUE, A., KOBAYASHI, K., MASUMOTO, T. (Tohoku Univ., Iron, Steel and other Met. Res. Inst., Sendai, Miyagi, 980 Japan): Mechanical properties and thermal stability of (Fe, Co, Ni)-Mo-C quaternary amorphous alloys. *Sci. Rep. Res. Inst. Tohoku Univ.* 28 (1980) 172
- IPPOLITO, E. G., TRIPOLSKAYA, T. A.: Conditions of formation and thermal dissociation of double fluoride heptahydrates of 3d-transition elements. *Zh. Neorg. Khim.* 25 (1980) 775 (In Russian)
- IVANCHEV, S. S., KONOVALENKO, V. V., ARTYM, I. I., KOVBUZ, M. A. (Plastpolimer Sci. Ind. Assoc., Leningrad, USSR): Features of the kinetics and mechanism of thermal decomposition of three-functional peroxides. *Dokl. Akad. Nauk SSSR* 250 (1980) 1148 (In Russian)

- JENSEN, J. B., BUCH, J. S. R. (Fys. Kem. Inst., DTH 206 DK-2800 Lyngby, Denmark): Solubility of silver tungstate in aqueous solutions at different ionic strengths and temperatures. Thermodynamic quantities of Ag_2WO_4 . *Acta Chem. Scand. A* 34 (1980) 95
- JEZIERSKI, A., KUENTZLER, R., WILLIAMS, D. E. G. (Polish Acad. Sci., Inst. Fiz. Molecularnej, PL-60479 Poznan, Poland): The electronic specific heats of ordered $\text{Pt}_3\text{Mn}_x\text{Cr}_{1-x}$ alloys. *J. Phys. F* 10 (1980) L 119
- KAJIURA, M. (NHK, Broadcasting Sci. Res. Labs., 1-1011 Kinuta, Tokyo, 157 Japan): Effect of chromium on the thermal stability of cobalt-based amorphous alloy. *Jap. J. Appl. Phys.* 19 (1980) 559
- KALA, C., GUR, I. S., BHATNAGAR, H. L. (Kurukshetra Univ., Dept. Chem., Kurukshetra, 132119 Haryana, India): Studies on the thermal degradation of cellobiose. *J. Indian Chem. Soc.* 56 (1979) 890
- KALISHEVICH, G. I., ROMASHEVA, L. F., SYCHEV, N. I., GELD, P. V. (S. M. Kirov Polytech. Inst., Sverdlovsk, USSR): Low temperature specific heat of $\text{Fe}_{1-x}\text{Co}_x\text{Si}$ solid solutions. *Fiz. Tverd. Tela* 22 (1980) 1242 (In Russian)
- KAMBE, Y. (Showa Coll. Pharmaceut. Sci., Setagaya-ku, Tokyo, Japan): Thermal behaviour of poly(ethylene oxide) revealed by differential scanning calorimetry. *Polymer* 21 (1980) 352
- KERTES, A. S., LAI, W. C. (Armark Res. Lab., McCoak, Ill., 60525 USA): Thermodynamics of microemulsion systems. III. Enthalpies of transfer of alcohol cosurfactants in aqueous electrolyte - hydrocarbon systems. *Colloid. Surface* 1 (1980) 197
- KESTIN, J., PAUL, R., CLIFFORD, A. A., WAKEHAM, W. A. (Brown Univ., Div. Engn., Providence, R. I., 02912 USA): Absolute determination of the thermal conductivity of the noble gases at room temperature up to 35 MPa. *Physica A* 100 (1980) 349
- KHAKHLOVA, N. V., SNETKOV, A. Y., AKSHENTSEVA, A. P., SERGEEVA, G. V.: Effect of heating on the phase composition, microstructure, and mechanical properties of alloys O6KhN28MDT and O3KhN28MDT. *Metal Sci. Heat Treatment* transl. *Metalloved. Term. Obr. Met.* 21 (1979) 576
- KHANDELWAL, B. L., MALLELA, S. P. (Indian Inst. Technol., Dept. Chem., New Delhi, 110029 India): Thermal decomposition studies on manganese(III) selenite complexes. *Thermochim. Acta* 37 (1980) 261
- KHOPKAR, P. K., MATHUR, J. N. (Bhabha Atom Res. Ctr., Div. Radiochem., Bombay, 400085 India): Thermodynamics of thiocyanate complexes of trivalent actinides and lanthanides. *Thermochim. Acta* 37 (1980) 71
- KILIAN, H. J. (Gesamthsch. Kassel, Arbeitsgrp. Tech. Phys., D-3500 Kassel, GFR): Thermal conductivity of compressed copper powder (G). *Naturwissenschaften* 67 (1980) 142
- KIMISHIMA, Y., NISHIHARA, H., WATANABE, T. (Hokkaido Univ., Fac. Sci., Dept. Phys., Sapporo, Hokkaido, 060 Japan): Phase transitions of quasi two-dimensional $(\text{CH}_3\text{NH}_3)_2\text{Cu}(\text{Cl}_x\text{Br}_{1-x})_4$ mixed crystal system. *J. Magn. Magn. Mater.* 15 (1980) 229
- KIMURA, I., IDOGAKI, T. (Fukuoka Univ. Educ., Dept. Phys., Fukuoka, 81141 Japan): Magnetic specific heat of $\text{Fe}(\text{HCOO})_2 \cdot 2\text{H}_2\text{O}$. *J. Magn. Magn. Mater.* 15 (1980) 25
- KIRCZENOW, G. (Boston Univ., Dept. Phys., Boston, Mass., 02215 USA): General transport theory and lattice thermal conductivity. *Ann. Phys.* 125 (1980) 1
- KIRMSE, W., KÜHR, R., MURAWSKI, H. R., SCHEIDL, F., ULLRICH, V. (Ruhr Univ. Bochum, Chem. Abt., D-4630 Bochum, GFR): Thermal rearrangements of 8-methoxybicyclo[5.1.0]octa-2,4-diene and 8-methoxybicyclo[5.1.0]oct-2-ene. *Chem. Ber.* 113 (1980) 1272
- KISHORE, K., DAS, K. M. (Indian Inst. Sci., Dept. Inorgan. and Phys. Chem., High Energy Solids Lab., Bangalore, 560012 India): Flammability index of polymeric materials. *Colloid Polym. Sci.* 258 (1980) 95
- KISHORE, K., DAS, K. M., KAKODKAR, S. P. (Indian Inst. Sci., Dept. Inorgan. and Phys. Chem., High Energy Solids Lab., Bangalore, 560012 India): Mechanistic studies on polymer flame retardancy. Effect of tribromoaniline. *Colloid Polym. Sci.* 258 (1980) 51

- KISHORE, K., PRASAD, G. (Indian Inst. Sci., Dept. Inorgan and Phys. Chem., High Energy Solids Lab., Bangalore, 560012 India): Thermo-chemical interpretation of polymer degradation. *Colloid Polym. Sci.* 258 (1980) 125.
- KLEVTSOV, P. V., KIM, V. G., KLEVTSOVA, R. F. (Acad. Sci. USSR, Inst. Inorgan. Chem., Novosibirsk, 630090 USSR): Thermal stability, synthesis of crystals of double molybdates $K_2R_2^{2+}(MoO_4)_3$ ($R = Mg, Ni, Co, Zn$) and crystal structure of β - $K_2Mg_2(MoO_4)_3$. *Krystallografiya* 25 (1980) 301 (In Russian).
- KLISURSKI, D. G., BLUSKOV, V. N. (Bulgarian Acad. Sci., Inst. Gen. and Inorgan. Chem., BU-1113 Sofia, Bulgaria): A Mössbauer study of the thermal decomposition of highly dispersed alpha-FeOOH. *Mater. Chem.* 5 (1980) 67.
- KOHATA, S., KAWAGUCHI, H., ITOH, N., OHYOSHI, A. (Yatsushiro Coll. Technol., Yatsushiro, 866 Japan): The kinetics of the thermal deammoniation of $[RhX(NH_3)_5]X_2$ in the solid state. *Bull. Chem. Soc. Jap.* 53 (1980) 807.
- KOMAROV, V. P., LAZAREV, V. B., SHAPLYGIN, I. S. (N. S. Kurnakov Gen. and Inorgan. Chem. Inst., Moscow, USSR): Formation and thermal dissociation of complexes of silver(I) and gold(I) with thiovanol. *Zh. Neorg. Khim.* 25 (1980) 746 (In Russian).
- KÖSTER, V., HO, P. S., RON, M. (Ruhr Univ. Bochum, Inst. Werkstoffe, D-4630 Bochum, GFR): Thermal reactions between aluminium and palladium layered films. *Thin Solid Films* 67 (1980) 35.
- KOTEL'NIKOV, V. A., IVANOV, M. P., FRUNZE, T. M., KURASHEV, V. V., DAVTYAN, S. P. (Acad. Sci. USSR, Inst. Organoelement. Cpd., Moscow, V-71 USSR): Thermometric method of the determination of copolymers composition during the anionic copolymerization of ϵ -caprolactam with ω -dodecalactam. *Vysokomol. Soedin. B* 22 (1980) 265 (In Russian).
- KRAUSE, J. K., LONG, T. C., EGAMI, T., ONN, D. G. (Univ. Delaware, Dept. Phys., Newark, Del., 19711 USA): Low-temperature specific heat of the metallic glasses $Fe_xNi_{80-x}P_{14}B_6$ and $(Fe_xNi_{100-x})_{79}B_8$ for the spin-glass and spin-chester-glass regimes. *Phys. Rev. B* 21 (1980) 2886.
- KRAVCHENKO, E. A., TIMOPEEVA, N. V., VINOGRADOVA, G. Z. (Acad. Sci. USSR, Inst. Gen. and Inorgan. Chem., Moscow, V-71 USSR): Crystal modifications of arsenic and antimony sulphides appearing at high pressure and temperature. *J. Mol. Struct.* 58 (1980) 253.
- KRISHTAL, M. A., VOLKOV, A. I. (Tolyatti Polytech. Inst., Tolyatti, USSR): Diffusional basis of chemicothermal treatment of steel. *Metal. Sci. Heat Treatment* transl. *Metalloved. Term. Obr. Met.* 21 (1979) 617.
- KRUPNOVA, N. S., MEERSON, L. A., ASLAKHOV, V. A. (S. M. Kirov Technol. Inst., Minsk, BeSSR): A study of desorption of ammonia from the A-type zeolites of alkaline forms with the differential thermobarogravimetry method. *Dokl. Akad. Nauk BeSSR* 24 (1980) 253 (In Russian).
- KRUTKO, N. P., EGIAZAROV, Y. G., TROKHIMETS, A. J. (Acad. Sci. BeSSR, Inst. Phys. Organ. Chem., Minsk, BeSSR): A study of kinetic relationships of indium oxide catalyst reduction with the thermo-weight method. *Dokl. Akad. Nauk BeSSR* 24 (1980) 249 (In Russian).
- KUCHNIR, M. (Fermi Natl. Accelerator Lab., Batavia, Ill., 60510 USA): Apparatus to measure thermal conductance. *Cryogenics* 20 (1980) 203.
- KUENTZLER, R., MOODY, D. E. (Univ. Strasbourg, Inst. Phys., F-67084 Strasbourg, France): Low temperature specific heat of dilute chromium-cobalt alloys. *J. Magn. Magn. Mater.* 15 (1980) 279.
- KUKUSHKIN, Y. N., FEDYANIN, N. P., MOKHOV, A. I., DANILINA, L. I. (Lensovet Technol. Inst., Leningrad, USSR): Thermal transformations of triphenylphosphonic carbonylnitrate complexes of rhodium. *Zh. Neorg. Khim.* 25 (1980) 784 (In Russian).
- KUSY, R. P., GREENBERG, A. R. (Univ. N. Carolina, Dent. Res. Ctr., Chapel Hill, N. C., 27514 USA): The use of composite beams to measure the dynamic mechanical properties of semi-rigid solids. *Thermochim. Acta* 37 (1980) 53.
- LAGASSE, R. R. (Sandia Labs., Albuquerque, N. M., 87185 USA): Improved scanning calorimetry technique for monitoring enthalpy relaxation of polymer glasses. *J.*

- Polym. Sci. Polym. Lett. Ed.* 18 (1980) 357
- LAGNIER, R., WOJAKOWSKI, A., SUSKI, W., JANUS, B., MORTIMER, M. J. (CEN, F-38041 Grenoble, France): The low temperature specific heat of uranium sesquisulphide. *Phys. Status Solidi A* 57 (1980) K127
- LAKE, J. G., OTT, W. R. (Rutgers State Univ., Coll. Engn. Dept. Ceram., New Brunswick, N. J., 08903 USA): The effect of the ammonium paratungstate source on the tungsten crystallite size. *Thermochim. Acta* 37 (1980) 105
- LAKHTIN, Y. M., KOGAN, Y. D., VAS'KOVSKII, A. M., BULGACH, A. A.: Principles of mathematical modeling of chemicothermal treatment processes. *Metal. Sci. Heat Treatment transl. Metalloved. Term. Obr. Metal.* 21 (1979) 623
- LANCHESTER, P. C., ROBINSON, K., BAKER, D. P., WILLIAMS, I. S., STREET, R., GOPAL, E. S. R. (Univ. Southampton, Dept. Phys., Southampton SO9 5NH Hampshire, England): The critical specific heat of gadolinium. *J. Magn. Magn. Mater.* 15 (1980) 461
- LAPTEVKOV, B. K., RAEVSKII, A. V., MANELIS, G. B., ABRUKOV, S. A. (I. N. Ulyanov State Univ., Cheboksary, USSR): Influence of electrostatic field on the thermal decomposition of ammonium perchlorate single crystals. *Dokl. Akad. Nauk SSSR* 250 (1980) 1185 (In Russian)
- LARIKOV, L. N., BAKLANOVA, L. M., DRACHINSKAYA, A. G., USTINOV, A. I.: Structural changes in chromium and a chromium alloy during a low-temperature phase transformation. *Russ. Metal. transl. Izv. Akad. Nauk SSSR Metal.* (1978) 143
- LASJAUNIAS, J. C., PENN, G., RAVEX, A., VANDORPE, M. (CNRS, Tres Basses Temp. Rech. Ctr., BP 166X, F-38042 Grenoble, France): Effect of thermal treatments on the low temperature specific heat of B_2O_3 and SiO_2 glasses. *J. Phys. Lett.* 41 (1980) L 131
- LAUGIER, M. (Wimet Ltd., Res. and Dev. Labs., Torrington Ave., Coventry, CV4 9AD England): The construction and use of thin film thermocouples for the measurement of surface temperature: applications to substrate temperature determination and thermal bending of a cantilevered plate during film deposition. *Thin Solid Films* 67 (1980) 163
- LEONOV, M. R., SOLOV'EVA, G. V., BUKINA, T. V. (N. I. Lobachevskii State Univ., Chem. Res. Inst., Gorki, USSR): Thermal decomposition of bisarene compounds of chromium in presence of aromatic compounds. *J. Appl. Chem. USSR transl. Zh. Prikl. Khim.* 52 (1979) 1756
- LEONOWICZ, M., LASOCKA, M. (Warsaw Tech. Univ., Inst. Mat. Sci. and Engn., PL-02524 Warszawa, Poland): Thermally induced glass-to-crystal transition in Te—Si—Pb system. *Mater. Chem.* 5 (1980) 109
- LESKELÄ, M., NIINISTÖ, L. (Helsinki Univ. Technol., Dept. Chem., SF-02150 Ota-niemi, Finland): Thermal decomposition of europium sulfite trihydrate in carbon monoxide. *Thermochim. Acta* 37 (1980) 125
- LEVESQUE, B., CAUDRON, R., COSTA, P. (Onera, F-92320 Chatillon, France): Low temperature specific heat and magnetization of ScGd and Y—Gd spin glasses. *J. Magn. Magn. Mater.* 15 (1980) 187
- LEVIT, V. I., BAKHTEYEVA, N. D., SMIRNOV, L. V. (Acad. Sci. USSR, Ural Sci. Ctr., Inst. Met. Phys., Sverdlovsk, USSR): Influence of high-temperature thermo-mechanical treatment on kind of tension curves of $KhN77TYUR$ alloy single crystals. *Fiz. Metal. Metalloved.* 49 (1980) 399 (In Russian)
- LIAS, S. G., SHOLD, D. M., AUSLOOS, P. (NBS, Natl. Measurement Lab., Washington, D. C., 20234 USA): Proton-transfer reactions involving alkyl ions and alkenes. Rate constants, isomerization processes, and the derivation of thermochemical data. *J. Amer. Chem. Soc.* 102 (1980) 2540
- LLOYD, W. G., DAVENPORT, D. A. (Univ. Kentucky, Inst. Min. and Minerals Res., Lexington, Ky., 40506 USA): Applying thermodynamics to fossil fuels: heats of combustion from elemental compositions. *J. Chem. Educ.* 57 (1980) 56
- LOGVINENKO, P. N., GOROKHOVSKII, G. A. (Acad. Sci. UkrSSR, Inst. Chem. Macromolec. cpds., Kiev, UkrSSR): Thermal degradation of polymethyl-methacrylate adsorption layers. *Vysokomol. Soedin. A* 22 (1980) 812 (In Russian)

- LOIACONO, G. M., DELFINO, M., SMITH, W. A., BELL, M. I., SHAULOV, A., TSUO, Y. H. (Philips Labs., Briarcliff Manor, N. Y., 10510 USA): Dielectric, pyroelectric, and thermal properties of LiNH_4SO_4 and LiND_4SO_4 . *Ferroelectrics* 23 (1980) 89
- LOVTCINOV, V., MÄDGE, H., CHRISTENSEN, A. N. (Bulgarian Acad. Sci., Inst. Solid State Phys., BU-1113 Sofia, Bulgaria): Low-temperature specific heat of $\text{VN}_{0.74}$ and $\text{VN}_{0.89}$. *Phys. Status Solidi B* 97 (1980) 457
- LUCKSCHEITER, B., MORTEONI, G. (Hahn Meitner Inst. Kernforsch. Berlin GmbH, Beriech Kernchem. und Reactor, D-1000 Berlin, 39): Microthermometrical and chemical studies of fluid inclusions in minerals from alpine veins from the penninic rocks of the central and western Tauern window (Austria-Italy). *Lithos* 13 (1980) 61
- LUŽNIK, J., MUŠEVIČ, I., PIRNAT, J., TRONTELJ, Z. (Univ. Ljubljana, Inst. Math. Phys. and Mech., YU-61001 Ljubljana, Yugoslavia): Chlorine NQR and thermometry below 77K. *J. Mol. Struct.* 58 (1980) 543
- MACDONALD, A. H., GELDART, D. J. W. (Natl. Res. Council Canada, Div. Phys., Ottawa, Ontario, K1A OR6 Canada): Electron-electron scattering and the thermal resistivity of simple metals. *J. Phys. F* 10 (1980) 677
- MADORSKAYA, L. Y., LOGINOVA, N. N., PANSHIN, Y. A., KHIN'KIS, S. S., MAKEENKO, T. G. (Plastpolimer Sci. Ind. Assoc. Leningrad, USSR): Influence of the nature of the comonomer on thermooxidative degradation of modified polyvinylidene fluoride. *J. Appl. Chem. USSR transl. Zh. Prikl. Khim.* 52 (1979) 1748
- MAJER, V., WAGNER, Z., SVOBODA, V., ČADEK, V. (Inst. Chem. Technol., Dept. Phys. Chem., CS-16628 Prague, Czechoslovakia): Enthalpies of vaporization and cohesive energies for a group of aliphatic ethers. *J. Chem. Thermodyn.* 12 (1980) 387
- MALOV, Y. A.: On anomalous behaviour of low temperature electron specific heat of non-regular superconductors. *Fiz. Tverd. Tela* 22 (1980) 880 (In Russian)
- MANTZ, I. B., EDWARDS, D. O., NAYAK, V. U.: Ripples, ^3He , and heat conduction on the surface of superfluid ^4He . *Phys. Rev. Lett.* 44 (1980) 1094
- MAR'IN, A. P., SHLYAPNIKOV, Y. A. (Acad. Sci. USSR, Inst. Chem. Phys., Moscow, V-71 USSR): Thermal and thermooxidative degradation of chitine. *Vysokomol. Soedin. A* 22 (1980) 589 (In Russian)
- MARSH, K. N., OTT, J. B., COSTIGAN, M. J. (c/o J. B. Ott, Brigham Young Univ., Dept. Chem., Provo, Utah, 84602 USA): Excess enthalpies, excess volumes, and excess Gibbs free energies for (n-hexane + n-decane) at 298.15 and 308.15K. *J. Chem. Thermodyn.* 12 (1980) 343
- MARTIN, D. L. (Natl. Res. Council Canada, Div. Phys., Ottawa, Ontario, K1A OR6, Canada): Specific heat of ordered equiatomic InMg , CuPt , and CuAu I below 30K. *Can. J. Phys.* 58 (1980) 164
- MARTIN, P. J., MORSS, L. R., STRAUSS, U. P. (c/o U. P. Strauss, Rutgers State Univ., Dept. Chem., New Brunswick, N. J., 08903 USA): Calorimetric investigation of hydrolyzed copolymers of maleic anhydride with butyl and lower alkyl vinyl ethers. *J. Phys. Chem.* 84 (1980) 577
- MARTIN, R. H., LIBERT, V. (Univ. Libre Bruxelles, Fac. Sci., Chim. Organ. Lab., B-1050 Brüssels, Belgium): Helicenes. The use of resolved hexahelicene-2-carboxylic acid as a common precursor for the photochemical synthesis of optically pure octa-, nona-, deca-, undeca-, and trideca-helicenes. Thermal racemization of deca- and undeca-helicenes. *J. Chem. Res.* 5 (1980) 130
- MASUDA, Y., SHISHIDO, S. (Niigata Univ., Dept. Gen. Educ., Niigata, 95021 Japan): Thermal decomposition of formates. V. Thermal decomposition of scandium formate. *J. Inorg. Nucl. Chem.* 42 (1980) 299
- MATSUDA, T. (Aichi Univ. Educ., Fac. Educ., Dept. Phys., Kariya, Aichi, 448 Japan): On the phase transitions in the $\text{Tl}-\text{Bi}$ system near Ti_3Bi . *Trans. Jap. Inst. Metals* 20 (1979) 742
- MATSUMOTO, S., SETAKA, N. (Natl. Inst. Res. Inorgan. Mat., Niihari, Ibaraki, 30031 Japan): Consolidation of diamond powders by thermal decomposition of methane and benzene. *J. Mater. Sci.* 15 (1980) 1333
- MATSUO, H. (Japan Atomic Energy Res. Inst., Tokai Res. Estab., Tokai, Ibaraki, 31911

- Japan): The effect of porosity on the thermal conductivity of nuclear graphite. *J. Nucl. Mater.* 89 (1980) 9
- MEBED, M. M., GAFFAR, M. A., SAKNIDY, S. (Univ. Assiut, Dept. Phys., Assiut, Egypt): Thermal properties of KNbO_3 crystals in the temperature range 350–700K. *Rev. Int. Hautes Temp. Refract.* 16 (1979) 340
- MEGAHED, A. A., YURCHAK, R. P.: Thermo-physical characteristics of periclase at high temperatures. *Fiz. Zemli* (1980) 75 (In Russian)
- MEHANDJIEV, D., NIKOLOVA-ZHECHEVA, E. (Bulgarian Acad. Sci., Inst. Gen. and Inorgan. Chem., BU-1040 Sofia, Bulgaria): Mechanism of the decomposition of cobaltous compounds in vacuo. *Thermochim. Acta* 37 (1980) 145
- MENDELOVOCO, E.: Infrared study of the thermal transformation of hematite and protohematite to magnetite in alkali iodide disks. *Mater. Chem.* 5 (1980) 37
- MEY-MAROM, A., BEHAR, D. (Soreq Nucl. Res. Ctr., Dept. Radiat. Chem., Yavne, Israel): Thermal decomposition studies of cotton radiolytically grafted with phosphorus- and bromine-containing flame retardants. *J. Appl. Polym. Sci.* 25 (1980) 691
- MITRA, N. K., GHATAK, S., MITRA, S. (Calcutta, Univ., Dept. Appl. Chem., Calcutta, 700009 India): Kinetics of thermal dehydration of synthetic zeolites in alkali metal forms. *Indian J. Chem. A* 19 (1980) 195
- MORI, K., NAKAMURA, Y. (Iwate Univ., Fac. Engn., Dept. Appl. Chem., Morioka, 020 Japan): Thermal stabilization of poly(vinyl chloride) by 6-R-1,3,5-triazine-2,4-dithiols. *Jap. Polym. Sci. Techn.* 37 (1980) 103 (In Japanese)
- MORSS, L. R., PORCJA, R. J., NICOLETTI, J. W., SAN FILIPPO, J., JENKINS, H. D. B. (Rutgers State Univ., Dept. Chem., New Brunswick, N. J., 08903 USA): Enthalpy of formation of dicesium octabromodirhenium(III), $\text{Cs}_2\text{Re}_2\text{Br}_8$, and a thermochemical estimate of the energy of the Re—Re quadruple bond. *J. Amer. Chem. Soc.* 102 (1980) 1923
- MORTAG, M., MOCKEL, K. (Padagog. Hsch. Erfurt Mühlhausen, Sekt. Chem. Biol., DDR-5700 Mühlhausen, GDR): Recent advances in preparation and thermolysis of alkylammonium-N-alkylthiocarbamates. *Z. Chem.* 20 (1980) 101 (In German)
- MUKASA, K., MAEDA, M. (Hokkaido Univ., Fac. Engn., Dept. Electr., Sapporo, Hokkaido, 060 Japan): DTA and MTA studies of electrodeposited Ni, Ni—P, and Ni—S films. *Phys. Status Solidi A* 57 (1980) K93
- MÜLLER, O., WILSON, R., COLIJN, H., KRAKOW, W. (Xerox Corp., Xerox Sq., W114 Rochester, N. Y., 14644 USA): $\delta\text{-FeO(OH)}$ and its solutions. 3. A study of the thermal decomposition. *J. Mater. Sci.* 15 (1980) 959
- MYDOSH, J. A. (State Univ. Leiden, Kamerringh Onnes Lab., Leiden, Netherlands): The question of a phase transition in spin glasses. Theory and experiment: a panel discussion. *J. Magn. Magn. Mater.* 15 (1980) 99
- NAGARAJAN, K., BHUPATHY, M., PRASAD, R., SINGH, Z., VENUGOPAL, V., SOOD, D. D. (Bhabha Atom Res. Ctr., Div. Radiochem., Bombay, 400085 India): Vaporization behaviour of uranium tetrafluoride. *J. Chem. Thermodyn.* 12 (1980) 929
- NANGIA, P. S., BENSON, S. W. (c/o S. W. Benson, Univ. So. Calif., Hydrocarbon Res. Inst., Los Angeles, Calif., 90033 USA): Thermochemistry and kinetics of ozonation reactions. *J. Amer. Chem. Soc.* 102 (1980) 3105
- NIGAM, R. K., SINGH, P. P., SINGH, M., SINGH, K. C. (Maharshi Dayanand Univ., Dept. Chem., Rohtak, 124001 India): Excess enthalpies of mixing of aniline + isomeric xylenes and barker's theory of associated mixtures. *Indian J. Chem. A* 19 (1980) 192
- NINAN, K. N., NAIR, C. G. R. (Vikram Sarabhai Space Ctr., Chem. and Mat. Grp., Trivandrum, 695022 India): Thermal decomposition studies. XII. Kinetics of dehydration of calcium oxalate monohydrate. Multiple correlation with heating rate and sample mass. *Thermochim. Acta* 37 (1980) 161
- NISHIMURA, J., TANAKA, N., YAMASHITA, S. (Kyoto Inst. Technol., Fac. Polytech. Sci., Dept. Chem., Sakyo-ku, Kyoto 606, Japan): Thermostability of polymers containing indanic units in the main chain. *J. Polym. Sci.* 18 (1980) 1203

- NISHIYAMA, K., SAKIYAMA, N., SEKI, S., HORITA, H., OTSUBO, T., MISUMI, S. (c/o N. Sakiyama, Osaka Univ., Fac. Sci., Dept. Chem., Toyonaka, Osaka, 560 Japan): Thermochemical studies on double and triple-layered [2.2] paracyclophanes. Estimation of molecular strain energies. *Bull. Chem. Soc. Jap.* 53 (1980) 869
- NOËL, S., DEVRAINNE, P. (Univ. Lille, 1 Chim. Minerale Lab., 1, F-59650 Ville-neuve d'Ascq, France): Détermination de l'enthalpie standard de décomposition des disulfates alcalins à partir de leurs enthalpies standard de mise en solution. *Comp. Rend. C* 290 (1980) 165
- NORRIS, A. C., POPE, M. I., SELWOOD, M. (Portsmouth Polytech., Dept. Chem., Portsmouth PO1 2DZ Hampshire, England): The kinetic study of isothermal solid state decompositions. The influence of sample variables. *Thermochim. Acta* 37 (1980) 209
- OETTING, F. L. (Rockwell Int., Energy Syst. Grp., Rocky Flats Plant, Golden, Co., 80401 USA): Chemical thermodynamics of nuclear materials. 4. High-temperature enthalpies of plutonium monocarbide and plutonium sesquicarbide. *J. Nucl. Mater.* 88 (1980) 265
- OKA, Y., KOSUGE, K., KACHI, S. (Kyoto Univ., Fac. Sci., Dept. Chem., Kyoto, 606 Japan): Phase diagram and order-disorder transition of vacancies in Fe_xVS_2 ($0.20 < x < 1.00$). *Mater. Res. Bull.* 15 (1980) 521
- OKUI, T., OGO, Y. (Kobe Steel Ltd., Waknōhamacho, 1-3-18 Fukiake, Kobe, 651 Japan): Thermolysis and hydrogenolysis of polyethylene under steam pressure. *J. Appl. Polym. Sci.* 25 (1980) 747
- OSTROVSKAYA, V. M., SHUNSKAYA, I. A., POMAZANOV, V. V., BASHAKOVA, T. I. (All Union Chem. Reagent. and Highly Pure Chem. Subst. Res. Inst., Moscow, USSR): Synthesis and investigation of thermal stability of certain cyclic nitrophthalimides. *J. Appl. Chem. USSR* transl. *Zh. Prikl. Khim.* 52 (1979) 1730
- OTT, H. R., LÜTHI, B., GOTO, T., DELONG, L. E., CROW, J. E. (ETH Honggerberg Festkörperphys. Lab., CH-8093 Zürich, Switzerland): Low temperature thermal properties of two singlet ground state systems: Pr_3Ti and PrSn_3 . *J. Magn. Magn. Mater.* 15 (1980) 9
- OVCHINNIKOV, K. V., NIKOLAEV, E. N., SEMENOV, G. A. (A. A. Zhdanov State Univ., Leningrad B-164, USSR): Thermal dissociation of Cr(III), Mn, Fe(III), Co and Ni perrhenates in vacuum. *Zh. Obshch. Khim.* 50 (1980) 485 (In Russian)
- PALEPU, R., MOORE, L. (Coll. Cape Breton, Dept. Chem., Sydney, N. S., B1P 6L2, Canada): Solid-liquid phase diagrams of mixtures containing substituted phenols and amine mixtures. *Thermochim. Acta* 37 (1980) 109
- PAN, P. H., FINNEMORE, D. K., BEVOLO, A. J., SHANKS, H. R., BEAUDRY, B. J., SCHMIDT, F. A., DANIELSON, G. C. (Iowa State Univ. Sci. and Technol., Ames Lab., US Doe, Ames, Ia., 50011 USA): Heat capacity of high purity lanthanum. *Phys. Rev. B* 21 (1980) 2809
- PASSAGLIA, E. (Univ. Modena, Inst. Mineral. and Petrol., I-41100 Modena, Italy): The heat behaviour of cation exchanged zeolites with the stilbite framework. *Tschermaks Miner. Petrogr. Mitt.* 27 (1980) 67
- PAUL, R. C., GROVER, J. L., SAHNI, R. N., PARKASH, R., AHLUWALIA, S. C. (Punjabi Univ., Dept. Chem., Patiala, 147002 Punjab, India): Heats of solution and neutralization of protonic acids in acetic anhydride. *J. Indian Chem. Soc.* 56 (1979) 977
- PERING, G. A., FARRELL, P. V., SPRINGER, G. S. (Univ. Michigan, Dept. Mech. Engn., Ann Arbor, Mich., 48109 USA): Degradation of tensile and shear properties of composites exposed to fire or high temperature. *J. Compos. Mater.* 14 (1980) 54
- PETRUSHEVSKIY, M. S., GELD, P. V.: Enthalpy of formation 3-component metallic melts with insignificant deviation from Raoult's law. *Russ. Metal.* transl. *Izv. Akad. Nauk SSSR Metal.* (1978) 51
- PHADKE, A. V., KSHIRSAGAR, L. K. (Univ. Poona, Dept. Geol., Poona, 411007 Maharashtra, India): Thermal decomposition of okenite from India. *Miner. Mag.* 43 (1980) 677
- PIWINSKII, A. J., WEED, H. C. (Univ. Calif., Lawrence Livermore Labs., Livermore,

- Calif., 94550 USA): Dynamic viscosity of some silicate melts to 1688 °C under atmospheric pressure. *Thermochim. Acta* 37 (1980) 189
- POMPE, R. (Chalmers Univ. Technol., Dept. Inorgan. Chem., S-40220 Gothenburg, 5 Sweden): Nitride precipitation in a powdered iron alloy studied by thermoanalytical methods. *Thermochim. Acta* 37 (1980) 37
- PRINSLOO, J. J., GRAVELLE, P. C. (c/o P. C. Gravelle, CNRS, Inst. Rech. Catalyse, F-69626 Villeurbanne, France): Volumetric and calorimetric study of the adsorption of hydrogen, at 296K, on supported nickel and nickel-copper catalysts containing preadsorbed monoxide. *J. Chem. Soc. Faraday Trans. I*, 76 (1980) 512
- PSARO, R., FUSI, A., UGO, R., BASSET, J. M., SMITH, A. K., HUGUES, F. (Ist. Chim. Gen. ed Inorgan., Cattedra Chim. Analit., Via Venezian, 21, I-20133 Milan, Italy): The thermal decomposition to metal of some neutral carbonyl metal clusters: a thermogravimetric and infrared investigation. *J. Mol. Catal.* 7 (1980) 511
- PUPLIKOVA, O. N., NEOKLADNOVA, L. N., ZARETSKII, M. V., USOVA, O. P. (V. I. Lenin State Univ., Minsk, BySSR): Thermal stability of europium and gadolinium glycinate. *Zh. Obsh. Khim.* 50 (1980) 481 (In Russian)
- RAJESHWAR, K., NOTTENBURG, N., WANG, Y. J., DUBOW, J. (Colorado State Univ., Dept. Elect. Engn., Ft. Collins, Colo., 80523 USA): Thermophysical properties of oil shales. I. Thermal diffusivity and thermal conductivity. *Rev. Int. Hautes Temp. Refract.* 16 (1979) 391
- RAKOCZY, J., SULIKOWSKI, B. (Polytech. Univ. Kraków, Inst. Organ. Chem. and Technol., PL-31155 Kraków, Poland): Properties of some Y type zeolites studied by the DTA, TG and high-temperature X-ray methods. *Polish J. Chem.* 54 (1980) 71
- RAO, B. S., VARMA, I. K. (Indian Inst. Technol., Sch. Mat. Sci. and Technol., Dept. Chem., New Delhi, 110029 India): Polyimides-effect of intrinsic viscosity on thermal stability. *Angew. Makromol. Chem.* 85 (1980) 149
- RASINES, I., MORALES DE SETIÉN, J. I. (Fac. Ciencias Quim., Inst. Elhuyar de Química Inorgan., Madrid 3, Spain): Thermal analysis of β -Co₂(OH)₃Cl and Zn₅(OH)₆Cl₂ · H₂O. *Thermochim. Acta* 37 (1980) 239
- RATTO, J. J., DYNES, P. J., HAMERMESH, C. L. (Rockwell Inst., Ctr. Sci., Thousand Oaks, Calif., 91360 USA): The synthesis and thermal polymerization of 4,4'-diethoxyphenyl ether. *J. Polym. Sci.* 18 (1980) 1035
- REWICK, R. T., GIKIS, B. J. (SRI Int., Chem. Engn. Lab., Phys. Chem. Grp., Menlo Pk., Calif., 94025 USA): The heat of solution of ammonium nitrate in nitric acid. *J. Chem. Eng. Data* 25 (1980) 127
- RICHTER, J., VREULS, W., WINTHAGEN, W. (Rhein. Westfal. TH Aachen, Inst. Internal. Med., 1, D-5100 Aachen, GFR): Molar entropies of salt melts between 600K and 3000K. *Ber. Bunsen Ges. Phys. Chem.* 84 (1980) 231
- RIMAI, D. S., ITO, J., JAMIESON, J. C. (Eastman Kodak Co., Photomat. Div., Rochester, N. Y., 14650 USA): High temperature polymorphism in rutile structure fluorides. *Mater. Res. Bull.* 15 (1980) 489
- ROEDIG, A., GÖPFERT, H. (Univ. Würzburg, Inst. Organ. Chem., D-8700 Würzburg, GFR): Umlagerungen vinyloger Carbonsäurechloride. XXIV. Untersuchungen über die Beeinflussung des thermischen Verhaltens von (Z)-Perchlor-2,4-pentadienen durch Substituenten am C-1. *Liebigs Ann. Chem.* (1980) 403
- ROUANET, A., SERRA, J. J., ALLAF, K., COUTURES, J., DEXPERT, H. (CNRS, Ultra Refract. Lab., Bp 5, F-66120 Font Romeu, France): Thermal decomposition of rare earth orthophosphates in air above 1200 °C. Reactions and characterisation of new solid phase. *Rev. Int. Hautes Temp. Refract.* 16 (1979) 437
- SABATINI, A., VACCA, A. (CNR, Ist. Chim. Gen. ed Inorgan., Via J. Nardi 39, I-50132 Florence, Italy): Reactions of 1,1,1-tris(aminomethyl)alkanes with nickel(II), copper(II), zinc(II) and hydrogen ions. A calorimetric and spectrophotometric investigation. *J. Chem. Soc. Dalton Trans.* (1980) 519

- SAFFEL, J. R., WINDLE, A. H. (Dept. Met. and Mat. Sci., Pembroke St., Cambridge England): The effect of temperature and thermal history on the WAXS pattern of polycarbonate. *J. Polym. Sci. Polym. Lett. Ed.* 18 (1980) 377
- SAJÓ, I., BRANDSTETR, J. (Iron Res. Inst., Pf. 14, H-1509 Budapest, Hungary): Thermometriche Bestimmung kleiner Mengen von Aluminium in Messing. *Thermochim. Acta* 37 (1980) 325
- SAPIESZKO, R. S., MATIJEVIĆ, E. (Clarkson Coll. Technol., Inst. Colloid and Surface Sci., Potsdam, N. Y., 13676 USA): Preparation of well-defined colloidal particles by thermal decomposition of metal chelates. I. Iron oxides. *J. Colloid Interface Sci.* 74 (1980) 405
- SATYAMURTHY, K., SINGH, J. P., KAMAT, M. P., HASSELMAN, D. P. H. (Virginia Polytech. Inst. and State Univ., Dept. Mat. Engn., Blacksburg, Va., 24061 USA): Thermal stress analysis of brittle ceramics with density gradients under conditions of transient convective heat transfer. *Trans. J. Brit. Ceram. Soc.* 79 (1980) 10
- SAVCHENKO, M. A., STEFANOVICH, A. V. (Moscow Radioengn. Electr. and Autom. Inst., Moscow, USSR): High-temperature superconducting phase in rare-earth metal compounds. *ETP Lett. transl. Pizma Zh. Eksp. Teor. Fiz.* 29 (1979) 607
- SCEATS, M. G., RICE, S. A. (Univ. Rochester, Dept. Chem., Rochester, N. Y., 14627 USA): The enthalpy and heat capacity of liquid water and the ice polymorphs from a random network model. *J. Chem. Phys.* 72 (1980) 3248
- SCHUFFENECKER, L., BALESSENT, D., HOURIEZ, J. (Ecole Natl. Super Ind. Chim. Inst. Natl. Polytech. Lorraine, Thermodynam. Chim. et Appl. Lab., F-54000 Nancy, France): Diagramme de phases et propriétés thermodynamiques du système cadmium-plomb. *Thermochim. Acta* 38 (1980) 89
- SCHWITZGEBEL, G. (Univ. Saarland, Fachbereich Phys. Chem. 13.2, D-6600 Saarbrücken, GFR): Standard Gibbs free energy of formation of Ba_2TiO_4 and $\text{Ba}_6\text{Ti}_{17}\text{O}_{40}$ by measurements of e.m.f. at 673K. *J. Chem. Thermodyn.* 12 (1980) 393
- SEIDOV, N. M., ALIGULIEV, R. M., GUSEINOV, F. O., IBRAGIMOV, K. D., OVANESOVA, G. S., TALYBOVA, T. N. (All Union Low Molec. Olefin. Reproc. Inst., Baku, AzSSR): Study of the vulcanization of ethylenepropylene-hexene terpolymer by differential thermal analysis. *Vysokomol. Soedin. B* 22 (1980) 254 (In Russian)
- SHEN, M. S., CHEN, J. M., STEINBERG, M. (c/o M. Steinberg, Engelhard Ind., Edison, N. J., 08817 USA): The optimal temperature of sulfur retention. *Thermochim. Acta* 37 (1980) 247
- SHIMANO, Y., SASAKI, S. (Hachinohe Tech. Coll., Dept. Ind. Chem., Hachinohe, 031 Japan): Synthesis of poly(diacylthiocarbazide)s from diacylisothiocyanates and dihydrazides, and their thermal cyclo-dehydration. *Jap. Polym. Sci. Techn.* 37 (1980) 131 (In Japanese)
- SHKLOVSKY, V. A. (Acad. Sci. UkrSSR, Inst. Engn. Phys., Kharkov, 108 UkrSSR): Thermal resistance of a metal-dielectric boundary and the nonlinear electric resistance of metallic films at low temperatures. *Zh. Eksp. Teor. Fiz.* 78 (1980) 1281 (In Russian)
- SHUSHUNOVA, A. F., MAKIN, G. I., CHIKINNOVA, N. V., BRYUKHANOV, A. N., ALEKSANDROV, Y. A. (N. I. Lobachevskii State Univ., Chem. Res. Inst., Gorki, USSR): Gas-chromatographic analysis of organometallic peroxides and their thermal degradation products. *J. Anal. Chem. USSR* transl. *Zh. Anal. Khim.* 34 (1979) 1249
- SILVA-MOREIRA, A. F., CODONA, J., GOODMAN, D. (Caltech., Pasadena, Calif., 91125 USA): Band structure effects in the heat capacity of adsorbed helium. *Phys. Lett. A* 76 (1980) 324
- SIRCAR, A. K., LAMOND, T. G., WELLS, J. L. (J. M. Huber Corp., Dept. Res., Borger, Tex., 79007 USA): Electrothermal analysis of carbon black loaded polymers. *Thermochim. Acta* 37 (1980) 315
- SIROTA, N. N., PETROVA, Z. K., SOKOLOVSKY, T. D. (Acad. Sci. BSSR, Inst. Solid State Phys. and Semicond. Phys., Minsk, BSSR): Thermal conductivity of zinc selenide over the temperature range 4.2 to 300K. *Dokl. Akad. Nauk BSSR* 24 (1980) 214 (In Russian)
- SMITH, L. E. S., CONE, J. T., VAN HOOK, W. A. (c/o W. A. Van Hook, Univ. Tennessee, Dept. Chem., Knoxville, Tenn.,

- 37916 USA): Enthalpies of dilution of aqueous electrolytes: the NaCl/H₂O system. *J. Solut. Chem.* 9 (1980) 81
- SNEL, J. A. A., TRAPPENIERS, N. J., BOTZEN, A. (Univ. Amsterdam, Van der Waals Lab., Amsterdam, 1004 Netherlands): Experimental studies in thermal conductivity of fluids. III. The theory of convection for the model of two vertical coaxial cylinders. *Proc. K. Ned. Akad. Wetenschap. B* 83 (1980) 69
- SOKOLOVSKY, T. D., PETROVA, Z. K. (Acad. Sci. BeSSR, Inst. Solid State Phys. and Semicond. Phys., Minsk, BeSSR): Calculation of some characteristics of zinc and cadmium chalcogenide lattice dynamics from experimental heat capacities. *Dokl. Akad. Nauk BeSSR* 24 (1980) 311 (In Russian)
- SOLACOLU, S., ZAHARESCU, M., DOROBANTU, M. (Icechim, Ctr. Phys. Chem., Splaiul Independentei, 202 Bucharest, Romania): Thermal phase equilibria in the system BaO-ZnO-Fe₂O₃ with application to magnetoceramics. *Rev. Roum. Chim.* 25 (1980) 111
- STARKOV, A. A., ZIL'BERMAN, E. N., EREMEEV, I. V. (Dzerzhinek Polytech. Inst., Dzerzhinsk, USSR): High-temperature hydrolysis of aliphatic amides. *J. Appl. Chem. USSR* transl. *Zh. Prikl. Khim.* 52 (1979) 1526
- STOHR, J. F. (Off. Natl. Etud et Rech. Aerosp., 29 Ave Div. Leclerc, F-92320 Chatillon, France): Stabilité thermique de composites de solidification métal-carbure. *Ann. Chim.* 5 (1980) 226
- STOKES, R. H., FRENCH, H. T. (Univ. New England, Dept. Phys. and Inorgan. Chem., Armidale, 2351 New S. Wales, Australia): Thermodynamic functions for the system ethanol + p-xylene from vapour pressures, enthalpies of mixing and volume of mixing, and their interpretation in terms of association. *J. Chem. Soc. Faraday Trans. I*, 76 (1980) 537
- STOPP, D. W. (City Univ. London, Dept. Phys., London, EC1V OHB, England): Size effect on thermal conductivity in thin aluminium films. *Thin Solid Films* 67 (1980) L43
- STUETZ, D. E., DI EDWARDO, A. H., ZITOMER, F., BARNES, B. P. (Celanese Res. Co., Summit, N. J., 07901 USA): Polymer flammability, I. *J. Polym. Sci. Polym. Chem. Edit.* 18 (1980) 967
- STUETZ, D. E., DI EDWARDO, A. H., ZITOMER, F., BARNES, B. P. (Celanese Res. Co., Summit, N. J., 07901 USA): Polymer flammability. II. *J. Polym. Sci. Polym. Chem. Edit.* 18 (1980) 987
- SÜHNEL, K., MÜLLER, S. (Karl Marx Univ., Sekt. Chem., DDR-701 Leipzig, GDR): Thermodynamische Untersuchungen an Mischungen aus aliphatischen Alkoholen und Kohlenwasserstoffen. I. Experimentelle Bestimmung und Modellierung freier Excessenthalpien und Excessvolumina in binären Systemen aus Alkoholen und Toluol, Äthylbenzol bzw. p-Xylool. *Z. Phys. Chem.* 261 (1980) 60
- SUZUKI, K., ITO, M., INOUE, H., SHIRAI, T., YANAGISAWA, S. (Keio Univ., Dept. Appl. Chem., Kohoku-ku, Yokohama, Kanagawa 223, Japan): Determination of nitrogen oxides in exhaust gas by heat of reaction. *Jap. Soc. Anal. Chem.* 29 (1980) 123
- SZIROVICZA, L., SZILÁGYI, I. (Attila József Univ., Inst. Gen. and Phys. Chem., H-6701 Szeged, Hungary): Thermal decomposition of 2,2-propane-d₂, CH₃CDCH₃ radical isomerization. *Int. J. Chem. Kinet.* 12 (1980) 113
- TAKAYAMA, E., KIMIZUKA, N. (Nat'l. Inst. Res. Inorgan. Mat., Sakuramura, Niihari-gun, Ibaraki, 305 Japan): Thermodynamic properties and subphases of wustite field determined by means of thermogravimetric method in the temperature range of 1100°C-1300°C. *J. Electrochem. Soc.* 127 (1980) 970
- THERY, P., PAUQUET, J. (Univ. Lille, 1 Mesures Automat. Lab., Ctr. Rech. Sci., Mat. et Tech. Construct., F-59650 Villeneuve d'Ascq, France): Propriétés thermoélectriques des systèmes à deux couches conductrices superposées: application aux mesures de flux calorifiques. *J. Phys. E* 13 (1980) 323
- THOMAS, Y., TARAVEL, B., FROMAGE, F., DELORME, P. (Inst. Rech. Sci. Tech. 2 Struct. Molec. Lab., Bd. Lavoisier, F-49045 Angers, France): Infrared spectrometry of thermal decomposition products of guanidinium ion. *Mater. Chem.* 5 (1980) 117

- TILLER, W. A. (Stanford Univ., Dept. Mat. Sci. and Engn., Stanford, Calif., 94305 USA): On the kinetics of the thermal oxidation of silicon. 1. A theoretical perspective. *J. Electrochem. Soc.* 127 (1980) 619
- TORIKAI, A., FUKUMOTO, M. (Nagoya Univ., Fac. Engn., Dept. Synthet. Chem., Chikusa-ku, Nagoya, Aichi, 464 Japan): Thermal-induced conversion of maleic and fumaric acid anion radicals in poly(methyl methacrylate). *J. Polym. Sci.* 18 (1980) 1213
- TORRALVO, M. J., GRILLET, Y., ROUQUEROL, F., ROUQUEROL, J. (CNRS, Ctr. Thermodynam. et Microcalorimétrie, 26 Rue du 141 ème Ria, F-13003 Marseille, France): Etude, par microcalorimétrie d'adsorption d'azote et d'argon, de l'évolution de la microporosité d'un gel de zircone au cours de son traitement thermique, *J. Chim. Phys.* 77 (1980) 125
- TOWNSEND, D. I., TOU, J. C. (Dow Chem. Co. Proc. and Dev. Labs., Midland, Mich., 48640 USA): Thermal hazard evaluation by an accelerating rate calorimeter. *Thermochim. Acta* 37 (1980) 1
- TRISCHLER, F. (G. Richter Chem. Fabrik, Phys. Chem. Abt., Gyömrői út 19–21, H-1475 Budapest, Hungary): Thermo-metric determination of sulphide by conversion on thiosulphate. *Fresenius Z. Anal. Chem.* 300 (1980) 288
- TSALLIS, C. (Ctr. Brasileiro Pesquisas Fis., CNPq Av. Wenceslau Braz 71, Rio de Janeiro, Brazil): Phase transition in a bond dilute two dimensional Ising model. *J. Magn. Magn. Mater.* 15 (1980) 243
- TSUCHIYA, R., UEHARA, A., KOBAYASHI, K. (Kanazawa Univ., Fac. Sci., Dept. Chem., Kanazawa, Ishikawa, 920 Japan): Preparation and solid-phase thermal reactions of hexaamminechromium(III) amino poly-carboxylates under quasi-isothermal and isobaric conditions. *Bull. Chem. Soc. Jap.* 53 (1980) 921
- TURLAKOV, V. N., D'YAKONOV, L. I., SHEINKMAN, A. I. (Chelyabinsk Univ., Chelyabinsk, USSR): Formation of a metastable phase during thermal decomposition of FeOHSO_4 . *J. Appl. Chem. USSR transl. Zh. Prikl. Khim.* 52 (1979) 1613
- TUROVSKII, I. V., FREIMANIS, Y. F. (Acad. Sci. LaSSR, Inst. Organ. Synth., Riga, LaSSR): Synthesis and properties of charge transfer complexes and autocomplexes. 28. Influence of solution on enthalpy of autocomplex formation. *Zh. Obshch. Khim.* 50 (1980) 507 (In Russian)
- TURULIN, V. N., KIM, V. G., EMEL'YANOV, P. P. (Volga Automobile Factory, Volga, USSR): Means of improving automatic chemicothermal treatment lines. *Metal Sci. Heat Treatment transl. Metalloved. Term. Obr. Metal.* 21 (1979) 645
- UDAGAWA, S., IKAWA, H., YAMAMOTE, M., OTSUKA, N. (Tokyo Inst. Technol., Fac. Engn.; Dept. Inorgan. Mat., Meguro-ku, Tokyo, 152 Japan): Orientation relation in the thermal decomposition of β -alumina. *J. Chem. Soc. Jap. Chem. Ind. Chem.* (1980) 297 (In Japanese)
- URUSKA, I., INEROWICZ, H. (Tech. Univ. Gdańsk, Inst. Chem. Engn., Dept. Phys. Chem., PL-80952 Gdańsk, Poland): Calorimetric investigations of the solvent effect on complex formation between pyridine derivatives and molecular iodine. *J. Solut. Chem.* 9 (1980) 97
- URUSKA, I., INEROWICZ, H. (Tech. Univ. Gdańsk, Inst. Chem. Engn., Dept. Phys. Chem., PL-80952 Gdańsk, Poland): Calorimetric and spectrophotometric investigations on solvent effect on 2,6-lutidine-molecular iodine complex. *Polish J. Chem.* 53 (1979) 2579
- VALERA, E. D., FEAKINS, D., WAGHORNE, W. E. (c/o D. Feakins, Natl. Univ. Ireland Univ. Coll., Dublin, Ireland): Studies in ion solvation in non-aqueous solvents and their aqueous mixtures. 20. Enthalpies of transfer of alkali-metal halides in the methanol + water system from enthalpies of dilution. *J. Chem. Soc. Faraday Trans. I*, 76 (1980) 560
- VALIGNAT, J., SPITZ, J., RITCHIE, I. T. (Dept. Met. Grenoble, Etudes Mat. Minces Lab., F-38041 Grenoble, France): Le dépôt électrolytique de chrome noir: Caractérisation et stabilité thermique. *Rev. Phys. Appl.* 15 (1980) 397
- VAN DER LINDEN, H. W. M., NIEUWENHUYSE, G. J., DOKTER, H. D., DAVIDOV, D., FELNER, I. (State Univ. Leiden, Kamerringh Onnes Lab., Leiden, Netherlands): Specific heat and electron spin resonance

- of $\text{Er}_x\text{La}_{1-x}\text{Be}_{18}$. *J. Magn. Magn. Mater.* 15 (1980) 42
- VANDERSANDE, J. W. (Univ. Witwatersrand, Dept. Phys., Johannesburg, 2001 South Africa): A correlation between the infrared absorption features and the low temperature thermal conductivity of different types of natural diamonds. *J. Phys. C* 13 (1980) 757
- VARMA, R. P., SINGH, K. (Dav Coll., Dept. Chem., Muzaffarnagar, 251001 India): Application of thermogravimetric equations on the thermal decomposition of manganese(II) soaps. *Trans. Metal. Chem.* 5 (1980) 39
- VASILCHENKO, L. M., TRUNIN, A. S. (Kuibyshev Railroad Transport Engn. Inst., Kuibyshev, USSR): Study of the 4 way reciprocal system Na, K||F, Cl, WO_4 by conversion and projective-thermographic methods. *Zh. Neorg. Khim.* 25 (1980) 822 (In Russian)
- VASILENKO, A. M., ZVIGINTSEV, N. V., MOGUTNOV, B. M., KHADYYEV, M. S., SHAPOSHNIKOV, N. G. (S. M. Kirov Polytech. Inst., Sverdlovsk, USSR): Phase transformations during high-temperature austenitization and solid solution decomposition in Ni—Cr—Co—Mo maraging alloys. *Fiz. Metal. Metalloved.* 49 (1980) 603 (In Russian)
- VASILEV, V. P., BORODIN, V. A., LYTKIN, A. I., BABAEVA, V. P., ROSOLOVSKII, V. Y. (Ivanovo Chem. Technol. Inst., Ivanovo, USSR): Standard enthalpy of formation of nonaqueous zirconium perchlorate at 25°C. *Zh. Neorg. Khim.* 25 (1980) 663 (In Russian)
- VASIL'eva, I. G., KANEV, A. N., KAMBURG, V. G., POPOVA, E. D. (Acad. Sci. USSR, Inst. Inorgan. Chem., Moscow, V-71 USSR): Thermal dissociation of lanthanum sulfide. *Inorg. Mater. transl. Izv. Akad. Nauk SSSR Neorg. Mater.* 15 (1979) 1041
- VASIL'YEV, E. K., LAPIDES, I. L. (Acad. Sci. USSR, Inst. Geochem. Inst. Earths Crust, Irkutsk, USSR): On the end products of mica thermic decomposition. *Kristall Technik* 15 (1980) 231
- VERKIN, B. I., SERBIN, I. A., SIVOKON, V. E. (Acad. Sci. UkrSSR, Inst. Low Temp. Engr. Phys., Kharkov, 108 UkrSSR): On the universal phase diagram in the point of low and high-molecular compound glass-transition. *Dokl. Akad. Nauk SSSR* 250 (1980) 645 (In Russian)
- VERNIN, G., KAMAL EL SHAFEI, A., METZGER, J. (Fac. Sci. et Tech. St. Jerome, Molec. Chem. Lab., F-13397 Marseille, France): Thermal decomposition of 1,3-diphenyltriazene in the presence of triphenylphosphine, perchloric acid, and various pyridine substrates. *J. Chem. Res.* (1980) 150
- VIERLING, F. (Univ. Strasbourg, 1 Ecole Natl. Super. Chim., F-67008 Strasbourg, France): Enthalpies et entropies d'activation de la réaction d'oxydation par le brome et par l'ion tribromure de complexes aminopolycarboxyliques du manganèse(II). *Bull. Soc. Chim. Fr.* (1980) 144
- VILLENEUVE, D. M., RICHARDSON, M. C. (Nat'l. Res. Council Canada, Div. Phys., Ottawa, Ontario, K1A OR6 Canada): Calorimetric system for recording plasma blow off and scattered light distributions from laser plasmas. *Rev. Sci. Instr.* 51 (1980) 306
- VIR, A., PANNU, B. S. (Punjab Agr. Univ., Dept. Chem., Ludhiana, 141004 Punjab, India): The chelation of esters of salicylic acid with zinc group metals. *Thermochim. Acta* 37 (1980) 253
- VISWANATHILAH, M. N., TAREEN, J. A. K., KRISHNAMURTHY, K. V. (Univ. Mysore, Inst. Mineral., Mysore 570006 Karnataka, India): Low temperature hydrothermal synthesis of magnetite. *J. Cryst. Growth* 49 (1980) 189
- VOLKOVA, A. V. (Vladimir Teachers Inst., Vladimir, USSR): High-temperature transitions in polyurethanes and resins. *Colloid J. USSR transl. Kolloid. Zh.* 41 (1979) 654
- VOLL, E. J., MEITES, L. (Clarkson Coll. Technol., Dept. Chem., Potsdam, N. Y., 13676 USA): Constant-rate titrations in studies of chemical kinetics. 5. Thermometric titrations of ethyl glycolate with sodium hydroxide, and simultaneous determination of glycolic acid and evaluation of the rate constant for alkaline hydrolysis. *Anal. Chim. Acta* 115 (1980) 249
- VORONKOV, M. G., SAZANOV, I. N., SULTANGAREEV, R. G., SHIBAEV, L. A., ROZINOVA, L. G., ANTONOVA, T. A., KUZNETSOVA, N. P., LOPYREV, V. A. (Acad. Sci. USSR, Inst. Organ. Chem., Irkutsk, USSR):

- Thermostability of compounds simulating the structure of polyoxadiazols. *Dokl. Akad. Nauk SSSR* 250 (1980) 115 (In Russian)
- WANG, S.: The stability of laihunite. A thermodynamic analysis. *Geochimica* (1980) 31 (In Chinese)
- WANG, Y., FREEMAN, M., NOTTENBURG, R., RAJESHWAR, K., DUBOW, J. (c/o K. Rajeshwar, Colorado State Univ., Dept. Elect. Engn., F. Collins, Colo., 80523 USA): Automation of layer-flash thermal diffusivity measurements. *Thermochim. Acta* 37 (1980) 287
- WARDELL, J. L., GRANT, D. W. (Univ. Aberdeen, Dept. Chem., Aberdeen AB9 2UE, Scotland): Tetraphenylantimony mercaptides, Ph_4SbSAr : thermal decomposition. *J. Organometal. Chem.* 188 (1980) 345
- WARNER, S. B. (Celanese Res. Co., Summit, N. J., 07901 USA): Thermotropic anthraquinone polymers: structure and enthalpic relaxation. *Macromolecules* 213 (1980) 450
- WARNQVIST, B. (Swedish Forest Prod. Res. Lab., Box 5604, S-11486 Stockholm, Sweden): Comments on thermochemical data and fusion temperature for pure sodium sulfide. *Thermochim. Acta* 37 (1980) 343
- WEDLER, G. (Univ. Erlangen Nürnberg, Inst. Phys. and Theoret. Chem., D-8520 Erlangen, GFR): Thermochemical data for adsorption systems. A critical discussion of measurements and usefulness in comparison with other techniques. *Chim. Ind.* 62 (1980) 23
- WEGMAN, R. W., BROWN, T. L. (c/o T. L. Brown, Univ. Illinois, Sch. Chem. Sci., Urbana, Ill., 61801 USA): Photochemical and thermal decomposition of $\text{HCo}(\text{CO})_4$. Evidence for a radical pathway involving $\text{Co}_2(\text{CO})_8$. *J. Amer. Chem. Soc.* 102 (1980) 2494
- WEILL, C. E., CARROLL, B., LISKOWITZ, J. W. (Rutgers State Univ., Dept. Chem., Newark, N. J., 07102 USA): Kinetics of the thermal reactions of some disaccharides. *Thermochim. Acta* 37 (1980) 65
- WENDLANDT, W. W. (Univ. Houston, Dept. Chem., Thermal Anal. Lab., Houston, Tex., 77004 USA): An electrical conductivity (EC) study of the thermal dissociation of $\text{Co}[(\text{NH}_3)_6]\text{X}_3$ and $[\text{Co}(\text{en})_3]\text{X}_3$ complexes. *Thermochim. Acta* 37 (1980) 89
- WENDLANDT, W. W. (Univ. Houston, Dept. Chem., Thermal Anal. Lab., Houston, Tex., 77004 USA): A convenient electrical conductivity (EC) — differential thermal analysis (DTA) apparatus. *Thermochim. Acta* 37 (1980) 117
- WENDLANDT, W. W. (Univ. Houston, Dept. Chem., Thermal Anal. Lab., Houston, Tex., 77004 USA): A thermovoltaic detector (TVD) for thermal decomposition reactions. *Thermochim. Acta* 37 (1980) 121
- WENZL, H., PIETZ, S. (KFA Jülich GmbH, Inst. Festkörperforsch., D-5170 Jülich 1, GFR): The specific heat of iron titanium hydride at room temperature. *Solid State Commun.* 33 (1980) 1163
- WIENCH, D. M., JANSEN, M. (c/o M. Jansen, Univ. Giessen, Inst. Anorgan. und Analyt. Chem., D-6300 Giessen, GFR): Über Na_3PO_4 : Versuche zur Reindarstellung, Kristallstruktur der Hochtemperaturform, *Z. Anorg. Allg. Chem.* 461 (1980) 101
- WILLIAMS, O. M. (Australian Natl. Univ., Res. Sch. Phys. Sci., Dept. Engr. Phys., Canberra, 2600 ACT, Australia): A comparison of reversible chemical reactions for solar thermochemical power generation. *Rev. Phys. Appl.* 15 (1980) 453
- YAMAGUCHI, J., SAWADA, Y., SAKURAI, O., UEMATSU, K., MIZUTANI, N., KATO, M. (Kyushu Univ., Fac. Sci., Dept. Chem., Fukuoka, 812 Japan): Thermal decomposition of hydrocerussite $[\text{2PbCO}_3 \cdot \text{Pb(OH)}_2]$ in carbon dioxide atmosphere (0–50 atm). *Thermochim. Acta* 37 (1980) 79
- YAMAZAKI, M., NAGAO, A., KOMAMIYA, K. (Minist. Agr. Forestry and Fisheries, Natl. Food Res. Inst., Yatabe, Tsukuba, Ibaraki, 305 Japan): High pressure differential thermal analysis (HPDTA) of fatty acid methyl esters and triglycerides. *J. Amer. Oil Chem. Soc.* 57 (1980) 59
- YEGOROV, Y. A., ZHIZHENKOV, V. V., BEZLADNOV, S. N., SOKOLOV, I. A., TOMASHEVSKII, E. Y. (A. F. Joffe Engr. Phys. Inst., Leningrad, USSR): Local exothermic effects during polyethylene-terephthalate fracture. The temperature profile of heated zone. *Vysokomol. Soedin. A* 22 (1980) 582 (In Russian)

- ZAUSKI, L., ZAUSKA, A., LASOCKA, M.
(Warsaw Tech. Univ., Inst. Mat. Sci. and
Engn., Narbutta 85, PL-02524 Warszawa,
Poland): Thermal evidence of structural
phase transformation in Te—Ge—Sb and
Te—Ge—Bi systems. *J. Mater. Sci.* 15
(1980) 1331