

Bibliography Section

- ABBÁS, K. B., THAME, N. G. (Univ. Massachusetts, Polym. Sci. and Engn. Dept., Mat. Res. Lab., Amherst, Mass., 01002 USA): Thermal stability of graft modifications of PVC and related materials. *J. Polym. Sci. Polym. Chem. Ed.* 13 (1975) 59
- AFINOGENOV, Y. P., DANTSEVA, V. A. (Voronezh State Univ., Inorg. Chem. Dept., Voronezh, USSR): Thermal analysis of $\text{GaCl}_3 + 3 \text{In} = 3 \text{InCl} + \text{Ga}$ system. *Zh. Neorg. Khim.* 20 (1975) 516 (In Russian)
- AFINOGENOV, Y. P., PAVLENKO, L. V. (Voronezh State Univ., Inorg. Chem. Dept., Voronezh, USSR): Thermal analysis of $2 \text{InCl}_3 + 3 \text{Cd} = 3 \text{CdCl}_2 + 2 \text{In}$ system. *Zh. Neorg. Khim.* 20 (1975) 546 (In Russian)
- AHRLAND, S., AVSAR, E., KULLBERG, L. (Univ. Lund, Chem. Ctr., POB 740, S-22007 Lund 7, Sweden): Thermodynamics of metal complex formation in aqueous solution. VI. Equilibrium and enthalpy measurements on the zinc and cadmium selenocyanate systems. *Acta Chem. Scand.* A 28 (1974) 855
- AKABORI, K. (Hiroshima Univ., Fac. Gen. Educ., Dept. Chem., Hiroshima 730, Japan): Thermal properties of $\text{N,N}'$ -dihydro-1,10-phenanthroline and $\text{N,N}'$ -dihydro-2,2'-bipyridinium pentachloromanganates(III). *Chem. Lett.* (1974) 1481
- AKHMEDOV, N. R., DZHALILOV, N. Z., ALIEV, G. M., ABDIMOV, D. SH. (Acad. Sci. AzSSR, Phys. Inst., Baku, AzSSR): Thermal conductivity and electrical properties of CrFe_2Se_4 , VFe_2Se_4 , and NiFe_2Se_4 . *Inorg. Mater. transl. Izv. Akad. Nauk SSSR Neorg. Mater.* 10 (1974) 711
- ALIEV, M. I., ALIEV, S. A., ABDINOVA, S. C. (Acad. Sci. AzSSR, Phys. Inst., Baku, AzSSR): Thermal conductivity of heavily doped p SnSb. *Izv. Akad. Nauk Azerb. SSR Fiz. Techn. Mat.* (1974) 25 (In Russian)
- ALLEN, E. A., DEL-GAUDIO, J., WILKINSON, W. (Portsmouth Polytech., Dept. Chem., Portsmouth, Hampshire, England): The thermal isomerisation of some four co-ordinate square planar complexes of palladium and platinum with phosphine ligands. *Thermochim. Acta* 11 (1975) 197
- ANDRIANOV, K. A., PAVLOVA, S. A., TVERDOKHLEBOVA, I. I., PERTSOVA, N. V., LARINA, T. A., BALKOVA, T. N. (Acad. Sci. USSR, Inst. Organoelement Cpd., Moscow, USSR): Comparative assessment of the intrinsic viscosity and molecular-weight distribution during low-temperature degradation of polysiloxanes of different structure. *Vysokomol. Soedin. B* 16 (1974) 886 (In Russian)
- ANNENKOVA, N. G., KOVARSKAYA, B. M., GUR'YANOVA, V. V., PSHENITSYNA, V. P., MOLOTKOVA, N. N. (Moscow Plast Mat. Res. Inst., Moscow, USSR): High-temperature oxidation of polyimides. *Vysokomol. Soedin. A* 17 (1975) 134 (In Russian)
- ARAKELYAN, B. M., ZOTOV, V. Y., PAPIN, G. P., REVEBTSOV, V. V., RUBLEV, V. V. (I. P. Bardin Cent. Ferrous Met. Res. Inst., Moscow, USSR): Universal laboratory set-up for thermogravimetric studies. *Zavod. Lab.* 41 (1975) 60 (In Russian)
- ARANOVICH, L. J. (Acad. Sci. USSR, Exptl. Mineral. Inst., Chernogolovka, USSR): Experimental investigation of exchange equilibria in system: epidote-garnet-water solution of Ca, Al, Fe chlorides at

- 500° and 580° and under 1 and 2 kbar
Dokl. Akad. Nauk SSSR 220 (1975) 933
(In Russian)
- ARIS, V., BROWN, J. M., CONNEELY, J. A.,
GOLDING, B. T., WILLIAMSON, D. H. (c/o
J. M. Brown, Univ. Warwick, Dept.
Molec. Sci., Coventry, CV4 7AL, Eng-
land): Synthesis and thermolysis of rho-
dium and irridium complexes of endo-
6-vinylbicyclo[3.1.0]hex-2-ene. A metal-
promoted vinylcyclopropane to cyclo-
pentene rearrangement. *J. Chem. Soc.
Perkin Trans. II* (1975) 4
- ASEEVA, R. M., BERLIN, A. A., USHKOV, B.
A., SHASHKOVA, B. T., KEFELI, T. YA.
(Acad. Sci. USSR, Chem. Phys. Inst.,
Moscow, USSR): Thermo-oxidative stabil-
ity and flammability of three-dimensional
polymers based on oligocarbonate meth-
acrylate. *Croat. Chem. Acta* 46 (1974) 183
- ASKAROV, M. A., DZHALILOV, A. T., NAZI-
ROVA, R. A., TSVESHKO, G. S.: Thermal
stability of cation-exchange resins based
on furfural. *J. Anal. Chem. USSR transl.
Zh. Anal. Khim.* 29 (1974) 1469
- ATKINSON, G. F., FUNG, K. H. (Univ.
Waterloo, Waterloo N2L 3G1, Ont.,
Canada): Tristimulus calorimetry calcula-
tor program. *J. Chem. Educ.* 52 (1975) 133
- ATKINSON, R. S., HARGER, M. J. P. (Univ.
Leicester, Dept. Chem., Leicester LE1
7RH, England): Thermal decomposition
of 9-(substituted phenylimino)-1,4-di-
hydro-1,2,3,4-tetraphenyl-1,4-methano-
naphthalenes. *J. Chem. Soc. Perkin Trans.
I* (1974) 2619
- AULOVA, N. V., ARSEN'EVA, E. D., FROM-
BERG, M. B., BEBCHUK, T. S., PASHEN-
TSEVA, G. I., GASHNIKOVA, N. P. (V. I.
Lenin Electrotech. Inst., Moscow, USSR):
On the thermal-oxidative and thermal
degradation of polymers on the basis of
diphenyl ether. *Vysokomol. Soedin. A* 17
(1975) 378 (In Russian)
- AUSLOOS, P., EYLER, J. R., LIAS, S. G. (NBS
Radiat. Chem. Sect., Washington, D.C.,
20234 USA): Thermal energy charge
transfer reactions involving CH₄ and SiH₄.
Lack of evidence for non-spiralling colli-
sions. *Chem. Phys. Lett.* 30 (1975) 21
- BALCEREK, K., LIPINSKI, L., MUCHA, J.,
RAFALOWICZ, J., WLOSEWICZ, D. (Polish
Acad. Sci., Inst. Low Temp. and Struct.
Res., Prochnika 95, 53-529 Wroclaw,
Poland): Measurements of the tempera-
ture-dependent thermal conductivity of
pure indium in the temperature range of
5 to 13 K. *Acta Phys. Pol. A* 46 (1974) 677
- BALTOG, I., CONSTANTINESCU, M., GHITA, C.,
GHITA, L. (Inst. Phys., Bucharest, Roma-
nia): Localized levels in the PbJ₂ band gap
induced by thermal treatment and irra-
diation. *Phys. Status Solidi A* 27 (1975)
K39
- BANDYOPADHYAY, M., KONAR, R. S. (Reg.
Engn. Coll., Dept. Chem., Durgapur 9,
India): Thermal decomposition of potas-
sium persulphate in the aqueous media.
J. Indian Chem. Soc. 51 (1974) 722
- BARANSKII, P. I., BUDA, I. S., DAKHOVSKII,
I. V., SAMOILOVICH, A. G. (Acad. Sci.
UkSSR, Semicond. Inst., Kiev, UkSSR):
Galvanothermometric effects in aniso-
tropic media. *Phys. Status Solidi B* 67
(1975) 291
- BARAZ, V. R., GRACHOV, S. V., VALAVINA,
G. I. (S. M. Kirov Polytech. Inst., Sverd-
lovsk, USSR): Thermal stability of ageing
austenitic steels. *Fiz. Met. Metalloved.* 38
(1974) 1044 (In Russian)
- BARCHUK, V. T., DUBOVOI, P. G. (Acad. Sci.
UkSSR, Gen. and Inorg. Chem. Inst.,
Kiev, UkSSR): Certain methods for in-
creasing sensitivity of thermographic anal-
ysis. *Ukr. Khim. Zh.* 41 (1975) 94 (In
Russian)
- BARCLAY, K., JESPERSEN, N. (c/o N. Jesper-
sen, Univ. Texas, Dept. Chem., Austin,
Tex., 78712 USA): Thermometric deter-
mination of Michaelis constants. *Anal.
Lett.* 8 (1975) 33
- BARRES, M., DUBES, J. P., ROMANETTI, R.,
TACHOIRE, H., ZAHRA, C. (Univ. Pro-
vence, Lab. Thermochim., Pl. Victor
Hugo, 13331 Marseille, France): Détermi-
nation des constantes thermodynamiques
d'équilibres en solution par calorimétrie
à conduction et flux de réactif. I. Descrip-
tion de la méthode. *Thermochim. Acta* 11
(1975) 235
- BARRY, E. F., ROSIE, D. M. (Lowell Tech-
nol. Inst., Dept. Chem., Lowell, Mass.,
01854 USA): Rapid determination of
response factors for the gas chromato-
graphic thermal conductivity detector. *J.
Chromatogr.* 103 (1975) 180

- BARTON, T. J., MARQUARDT, G., KILGOUR, J. A. (Iowa State Univ., Dept. Chem., Ames, Ia., 50010 USA): Pyrolysis of 1,1,2-trimethyl-1-silacyclobutane. Site of initial ring cleavage. *J. Organometal. Chem.* 85 (1975) 317
- BASSINDALE, A. R., BROOK, A. G., JONES, P. F., LENNON, J. M. (Univ. Toronto, Dept. Chem., Toronto M5S 1A1, Ont., Canada): The thermal rearrangement of α -substituted silanes. *Can. J. Chem.* 53 (1975) 332
- BAYER, G., WIEDEMANN, H. G. (Swiss Fed. Inst. Technol., Inst. Crystallog. and Petrog., Zürich, Switzerland): Formation, dissociation and expansion behavior of platinum group metal oxides (PdO, RuO₂, IrO₂). *Thermochim. Acta* 11 (1975) 79
- BEGAK, O. YU., KUKUSHKIN, YU. N.: Thermometric method for determining vanadium concentration ion solutions. *J. Anal. Chem. USSR* transl. *Zh. Anal. Khim.* 29 (1974) 1426
- BÉKÁSSY, S., PETRÓ, J., LIPTAY, G. (Tech. Univ. Budapest, Inst. Org. Chem. Technol., H-1521 Budapest, Hungary): Complex study of nickel skeleton catalysts. V. Study of novel non-pyrophoric nickel skeleton catalysts by derivatograph. *Thermochim. Acta* 11 (1975) 45
- BEKKER, F. F., VAN DUREN, C. J. A. (Univ. Amsterdam, Natuurkundig Lab., Amsterdam, Netherlands): Thermoelectric power and resistivity of dilute Ag-Yb alloys at low temperatures. *Physica* 77 (1974) 609
- BELL, P. S. (Cent. Elect. Res. Labs., Mat. Div., Leatherhead, Surrey, England): On the thermal oxidation resistance of some intermetallic compounds. *J. Mat. Sci.* 10 (1975) 165
- BELVEDERE, G., FANELLI, R., FRIGERIO, A., MALEN, E., HUGON, P. (Ist. Ricerche Farmacol. Mario Negri, Milan 20157, Italy): Mass spectrometric identification of the thermal decomposition products of N-(p-toluenesulfonyl)-N-[aza-biciclo-(3.3.0)] urea. (S-852). *J. Chromatogr. Sci.* 13 (1975) 54
- BÉNIÈRE, F. (Univ. Paris 6, Lab. Electrochim., CNRS, 9 Quai St.-Bernard, 75005 Paris, France): Entropy of formation of vacancies in solids. *J. Phys. Lett.* 36 (1975) L9
- BEREZIN, B. YA., KATS, S. A., KENISARIN, M. M., CHEKHOVSKOI, V. YA. (Acad. Sci. USSR, High Temp. Inst., Moscow, USSR): Heat and melting temperature of titanium. *High Temp.* transl. *Teplofiz. Vysok. Temp.* 12 (1974) 450
- BEREZKINA, L. G., ZOTOVA, K. S., MELNIKOVA, S. V., PANIDI, E. V., SUKHODOLOVA, V. I. (Y. V. Samoilov Fertilizer and Insectofungicide Res. Inst., Moscow, USSR): Thermal decomposition of disodium phosphate. *Zh. Fiz. Khim.* 48 (1974) 2935 (In Russian)
- BERNAL, G. E. (Honeywell Corporate Res. Ctr., Bloomington, Minn., 55420 USA): Heat flow analysis of laser absorption calorimetry. *Appl. Opt.* 14 (1975) 314
- BLACKLOCK, K., LINEBARGER, H. F., WHITE, H. W., LEE, K. H., HOLT, S. L. (Univ. Missouri, Dept. Phys., Columbia, Mo., 65201 USA): Specific heat of (CH₃)₄NCdCl₃(TMCC) from 1.66 to 17.72 K. *J. Chem. Phys.* 61 (1974) 5279
- BLANC, R., ESCOUBES, M. (Univ. Claude Bernard Lyon 1, Lab. Chim. Appl. et Génie Chim., CNRS 300, Lyon, France): Adsorption d'eau sur la kaolinite. Influence de la nature des sites actifs. *Thermochim. Acta* 11 (1975) 115
- BODDINGTON, T., LAYE, P. G., MORRIS, H., ROSSER, C. A., CHARLESLEY, E. L., FORD, M. C., TOLHURST, D. E. (Univ. Leeds, Dept. Phys. Chem., Leeds, LS2 9JT, England): A study of pyrotechnic reactions by temperature profile analysis and differential thermal analysis. *Combust. Flame* 24 (1975) 137
- BOESCH, L. P., MOYNIHAN, C. T. (Dept. Chem. Engr. and Mat. Sci., Vitreous State Lab., Washington, D.C., 20064 USA): Effect of thermal history on conductivity and electrical relaxation in alkali silicate glasses. *J. Non-Cryst. Solids* 17 (1975) 44
- BOGUSLAVSKAIA, N. I., MARTIANOVA, G. F., IAKIMCHENKO, O. E., KORSUNSKII, B. L., LEBEDEV, J. S., DUBOVITSKII, F. I. (Acad. Sci. USSR, Chem. Phys. Inst., Moscow, USSR): Investigation of the picric acid thermal decomposition by the ESR method. *Doklad. Akad. Nauk SSSR* 220 (1975) 617 (In Russian)
- BONNER, F. T., RAVID, B. (State Univ. New York, Dept. Chem., Stony Brook, N. Y.,

- 11794 USA): Thermal decomposition of oxyhyponitrite [sodium trioxodinitrate(II)] in aqueous solution. *Inorg. Chem.* 14 (1975) 558
- BONTSHEWA-MLADENOVA, Z., GEORGIEV, G. (Higher Inst. Chem. Technol., Dept. Chem. and Technol., Sofia, Bulgaria): Über Herstellung und Thermostabilität der Chalkogenate von Antimon und Wismut. 4. Herstellung und Untersuchung der Thermostabilität von Wismutselenat. *Monatsh. Chem.* 106 (1975) 283
- BORSESE, A., FERRO, R., CAPELLI, R., DELFINO, S. (Univ. Genoa, Ist. Chim. Gen. et Inorg., Viale Benedetto 15, 3 Genoa, Italy): Heat of formation of praseodymium - bismuth alloys. *Thermochim. Acta* 11 (1975) 205
- BOWERS, L. D., CARR, P. W. (c/o P. W. Carr, Univ. Georgia, Dept. Chem., Athens, Ga., 30602 USA): The sensitivity, linearity and temperature resolution of non-equal arm thermistor Wheatstone bridges near balance. *Thermochim. Acta* 11 (1975) 225
- BROUERS, F., BRAUWERS, M. (Univ. Paris S, CNRS, Lab. Phys. Solides, 91405 Orsay, France): On the temperature dependence of electrical resistivity in concentrated disordered transition binary alloys. *J. Phys. Lett.* 36 (1975) L 17
- BROWDER, J. S. (Jacksonville Univ., Dept. Phys., Jacksonville, Fla., 32211 USA): The thermal expansion of magnesium fluoride from room temperature to 16K. *J. Phys. Chem. Solids* 36 (1975) 193
- BRTNÍK, F., TRKA, A., ZAORAL, M. (Czechoslovak Acad. Sci., Inst. Org. Chem. and Biochem., 16610 Prague 6, Czechoslovakia): Thermal stability of vasopressin-(7-9), and oxytocin-(7-9)-tripeptide amides. *Collect. Czech. Chem. Commun.* 40 (1975) 179
- BUMAZHNOV, F. T. (Leningrad Min. Inst., Leningrad, USSR): Thermochemical dissociation of binary sulfates of iron, cobalt and nickel. *J. Appl. Chem. USSR* transl. *Zh. Prikl. Khim.* 47 (1974) 1267
- BUTT, YU. M., KAUSHANSKII, V. E. (D. I. Mendeleev Chemicotechnol. Inst., Moscow, USSR): Thermodynamic probability of the hydration of calcium silicates. *Inorg. Mater.* transl. *Izv. Akad. Nauk SSSR Neorg. Mater.* 10 (1974) 817
- BUXTON, P. CH., HALES, N. J., HANKINSON, B., HEANEY, H., LEY, S. V., SHARMA, R. P. (c/o H. Heaney, Loughborough Univ. Technol., Dept. Chem., Loughborough, LE11 3TU, Leicestershire, England): Aryne chemistry. XXXIII. Reactions of tetrahalogenobenzynes with methoxyarenes and the photolysis and thermolysis of some of the products. *J. Chem. Soc. Perkin Trans. I.* (1974) 2681
- CACCAMESE, S., MARAVIGNA, P., MONTAUDO, G. (Univ. Catania, Ist. Chem. Ind., Catania, Italy): Thermal degradation and electron impact induced fragmentation of two structurally related polyamides. *Chim. Ind. Milan* 57 (1975) 13
- CALDIN, E. (Univ. Kent, Canterbury, New S. Wales, Australia): Temperature-jump techniques. *Chem. Brit.* 11 (1975) 4
- CARRAHER, C. E., PETERSON, G. F., SHEATS, J. E., KIRSCH, T. (Univ. S. Dakota, Dept. Chem., Vermillion, S. D., 57069 USA): Production of organometallic polymers by the interfacial technique. XXXII. Reaction variables in the synthesis of oligomeric tin poly(cobalticinium esters) and thermal properties of the products. *J. Macromol. Sci. Chem.* 8 (1974) 1009
- ČERNÍK, M., KREJČÍK, D. (J. E. Purkyně Univ., Fac. Sci., Inst. Anorg. Chem., Brno, Czechoslovakia): Zur Reaktion des Kaliumperjodats mit Fluoroschwefelsäure. *Z. Chem.* 14 (1974) 491
- CHAIKIN, P. M., KWAK, J. F. (Univ. Calif., Dept. Phys., Los Angeles, Calif., 90024 USA): Apparatus for thermopower measurements on organic conductors. *Rev. Sci. Instr.* 46 (1975) 218
- CHALLIS, B. C., KERR, S. H., McDERMOTT, I. R. (St. Salvators Coll., Chem. Dept., St. Andrews, Fife, England): Kinetics and mechanism of thermal decomposition of phenylmalonic acids and esters in dimethylsulphoxide. *J. Chem. Soc. Perkin Trans. II* (1974) 1829
- CHANG, E. P., SALOVEY, R. (Hooker Chem. Corp., Res. Ctr., Niagara Falls, N. Y., 14302 USA): Pyrolysis of poly(vinyl chloride). *J. Polym. Sci. Polym. Chem. Ed.* 12 (1974) 2927
- CHEN, D. T. Y. (Chinese Univ. Hong Kong, Dept. Chem., Shatin, Hong Kong): DSC

- dehydration peaks and solubility products of $\text{Al}(\text{OH})_3$. *Thermochim. Acta* 11 (1975) 101
- CHEN, S. H. P., SAXENA, S. C. (c/o S. C. Saxena, Univ. Illinois, Dept. Energy Engng., Chicago, Ill., 60680 USA): Thermal conductivity of argon in the temperature range 350 to 2500 K. *Molecular Phys.* 29 (1975) 455
- CHICKOS, J. S. (Univ. Missouri, St. Louis, Mo., 63121 USA): A simple equilibrium method for determining heats of sublimation. *J. Chem. Educ.* 52 (1975) 134
- CHOPIN, J. M., REYES, A., FRIES, J. F., LACOMBE, P. (Univ. Paris Sud, Lab. Met. Phys., CNRS, 177 Bâtiment 413, 91405 Orsay, France): Influence du traitement thermomécanique ou thermique préalable en domaine monophasé (β_0) sur le comportement mécanique de l'alliage de titane Ti-6% Al-6% V-2% Sn (dit TA6V6E2) traité par trempe douce. *Compt. Rend. Ser. C* 279 (1974) 1093
- CLARK, R. P. (Sandia Labs., Albuquerque, N. M., 87115 USA): Thermal data for lithium sulfate and binary eutectics lithium sulfate-lithium chloride, lithium sulfate-sodium chloride, and lithium sulfate-potassium chloride. *J. Chem. Eng. Data* 20 (1975) 17
- COEY, J. M. D., BRUSETTI, R. (CNRS, Grp. Transitions Phases, B.P. 166, 38042 Grenoble, France): Heat capacity of nickel sulfide and its semimetal-metal transition. *Phys. Rev. B* 11 (1975) 671
- COLLINS, J. F., FREY, H. M., ISAACS, N. S. (c/o H. M. Frey, Univ. Reading, Chem. Dept., Reading, Berkshire, England): The thermal decomposition of cis- and trans-2-methoxy-4-methyl-3,4-dihydro-2H-pyran. *J. Chem. Soc. Perkin Trans. II* (1975) 1
- COLLINS, L. W., GIBSON, E. K., WENDLANDT, W. W. (c/o W. W. Wendlandt, Univ. Houston, Dept. Chem., Houston, Tex., 77004 USA): The thermal properties of inorganic compounds. II. Evolved gas studies of some mercury(I) and (II) compounds. *Thermochim. Acta* 11 (1975) 177
- COLLINS, L. W., WENDLANDT, W. W. (c/o W. W. Wendlandt, Univ. Houston, Dept. Chem., Houston, Tex., 77004 USA): The thermal analysis of some non-prescription vitamin preparations. *Thermochim. Acta* 11 (1975) 253
- CONSERVA, M., LEONI, M. (Ist. Sperimentale Met. Leggeri, Novara, Italy): Effect of thermal and thermo-mechanical processing on the properties of Al-Mg alloys. *Met. Trans. 6A* (1975) 189
- CRAWFORD, R. J., CAMERON, D. M., TOKUNAGA, H. (Univ. Alberta, Dept. Chem., Edmonton, T6G 2G2, Alberta, Canada): Thermolysis of some 4-alkylidene-1-pyrazolines. *Can. J. Chem.* 52 (1974) 4025
- CRAWFORD, R. J., TOKUNAGA, H. (Univ. Alberta, Dept. Chem., Edmonton T6G 2G2, Alberta, Canada): Thermolysis of 3,3,5,5-tetramethyl-4-methylene-1-pyrazoline and the thermal isomerization of some alkylidene-cyclopropanes. *Can. J. Chem.* 52 (1974) 4033
- CRÍADO, J. M., GONZÁLEZ GARCÍA, F., MORALES, I. (Univ. Seville, Dept. Quím. Inorg., Seville, Spain): Estudio crítico de la aplicación de métodos diferenciales al análisis cinético de datos termogravimétricos obtenidos en programa lineal de calentamiento. *An. Quím.* 70 (1974) 782
- CRÍADO, J. M., GONZÁLEZ GARCÍA, F., MORALES, I. (Univ. Seville, Dept. Quím. Inorg., Seville, Spain): Aplicación de la descomposición a la temperatura programada al estudio de reacciones de descomposición de sólidos que tengan lugar a través del mecanismo de Avrami-erofeev. *An. Quím.* 70 (1974) 787
- CROSS, A., HALL, M., HAWARD, R. N. (Univ. Birmingham, Ctr. Mat. Sci., Birmingham, B15 2TT, England): Thermal effects in the necking of thermoplastics. *Nature* 253 (1975) 340
- CUCCURU, A. (Lab. Radioprotezione, Camen, 56010, San Piero a Grado, Italy): Thermal properties of some cyclic disulfides: naphthalene disulfide and diphenylene disulfide. *Thermochim. Acta* 11 (1975) 247
- DALGAARD, L., LAWESSON, S. O. (Aarhus Univ., Chem. Inst., Dept. Org. Chem., DK-8000 Aarhus C, Denmark): Enethiols. VIII. 3-mercapto-5,5-dimethyl-2-cyclohexen-1-one ("Thiodimedone") and derivatives. Thermal and photochemical rearrangements. *Acta Chem. Scand. B* 28 (1974) 1077

- DASH, U. N. (Gangadhar Meher Coll., Dept. Chem., Sambalpur, India): Solubility studies in formamide. IV. Ionization constants of iodic and bromic acids in formamide from solubility measurements. *Thermochim. Acta* 11 (1975) 25
- DASH, U. N., NAYAK, B. (Gangadhar Meher Coll., Dept. Chem., Sambalpur, India): Solubility studies in formamide. III. Solubility product of silver bromate and standard electrode potential of silver-silver bromate electrode in formamide. *Thermochim. Acta* 11 (1975) 17
- DAVIDENKO, N. K., SHEVCHENKO, Y. N., YATSMIRSKII, K. B. (L. V. Pissarzhevskii Phys. Chem. Inst., Kiev, UkSSR): The preparation and thermal decomposition of ammonia complexes of cobalt and chromium phosphates. *Zh. Neorg. Khim.* 20 (1975) 145 (In Russian)
- DAVIDSON, I. M. T., HOWARD, A. V. (Univ. Leicester, Dept. Chem., Leicester LE1 7RH, England): Mechanism of thermolysis of hexamethyldisilane and the silicon-silicon bond dissociation energy. *J. Chem. Soc. Faraday Trans. I* 71 (1975) 69
- DE BRABANDER, H. F., GOEMINNE, A. M., VAN POUCKE, L. C. (Univ. Ghent, Dept. Gen. and Inorg. Chem., Ghent, Belgium): A potentiometric and calorimetric study of the polynuclear and mononuclear complexes of Ni(II) and Zn(II) with 2-mercaptopropionic acid. *J. Inorg. Nucl. Chem.* 37 (1975) 799
- DEROUANE, E. G., GABELICA, Z., HUBIN, R., HUBIN-FRANSKIN, M. J. (Fac. Univ. Namur, Grp. Catalyse, 61 Rue Bruxelles, B-5000 Namur, Belgium): Étude des mécanismes de décomposition thermique des oxalates de baryum, strontium, et magnésium. *Thermochim. Acta* 11 (1975) 287
- DIAZ PEÑA, M., NUÑEZ DELGADO, J. (Fac. Ciencias Valencia, Dept. Quim. Fiz., Valencia, Spain): Excess volumes at 323.15 K of binary mixtures of benzene with n-alkanes. *J. Chem. Thermodyn.* 7 (1975) 201
- DI SALVO, A. L., CORNELL, J. H. (USA Natick Labs., Natick, Mass., 01760 USA): The thermal degradation of polyurethanes by hexamethyldisilazane: synthesis of polyhexamethyleneurea with organosilicon reagents. *J. Polym. Sci. Polym. Chem. Ed.* 13 (1975) 97
- DJEMAL, M., DODÉ, M. (Univ. Paris S, Fac. Sci., Ctr. Orsay, Lab. Chim. Thermodynam., Bat. 415, F-91405 Orsay, France): Dispositif thermogravimétrique fonctionnant jusque vers 2300°C sous pression réduite. *Rev. Int. Hautes Temp. Réfract.* 11 (1974) 249
- DOBROLYUBOVA, M. S., TSENTSIPER, A. B. (Kurnakov Gen. and Inorg. Chem. Inst., Moscow, USSR): Thermal decomposition of lithium peroxoborate. *Bull. Acad. Sci. USSR, Div. Chem. Sci.* transl. *Izv. Akad. Nauk SSSR Ser. Khim.* 23 (1974) 1146
- DOI, K. (Nagoya Inst. Technol., Dept. Synth. Chem., Nagoya 466, Japan): Selective thermometric titration of manganese(II) with EDTA. *Anal. Chim. Acta* 74 (1975) 357
- DOLBIER, W. R., FREY, M. H. (Reading Univ., Chem. Dept. Whiteknights Pk., Reading, England): Thermal decomposition of cyclopent-3-enone. *J. Chem. Soc. Perkin Trans. II.* (1974) 1674
- DOLLIMORE, D., JONES, L. F., NICKLIN, T. (Univ. Salford, Dept. Chem. and Appl. Chem., Salford, M5 4WT Lancashire, England): The influence of sample cells for differential thermal analysis in controlled atmospheres. *Thermochim. Acta* 11 (1975) 307
- DOMRACHEV, G. A., SHALNOVA, K. G., TITOVA, S. N., TEPLOVA, I. A.: Reactions of thermal decomposition of PI-allylpalladium halides. *Zh. Obshch. Khim.* 45 (1975) 319
- DONNOVAN, L., BARCLAY, K., OTTO, K., JESPERSEN, N. (c/o N. Jespersen, Univ. Texas, Dept. Chem., Austin, Tex., 78712 USA): Thermochemistry of the reaction catalyzed by lactate dehydrogenase. *Thermochim. Acta* 11 (1975) 151
- DUBE, G., KIMMERLE, F. M. (Aluminium Co., Canada Ltd., Anal. Ctr., Arvida, Quebec, Canada): Semi-automated thermometric titration of sulfate. *Anal. Chem.* 47 (1975) 285
- DUBEY, K. S. (Reg. Engr. Coll., Phys. Dept., Warangal 506004, India): Effect of point imperfections on lattice thermal conductivity of an insulator at high temperatures. *Indian J. Pure Appl. Phys.* 12 (1974) 720
- DYER, A., WILSON, M. J. (Univ. Salford, Dept. Chem. and Appl. Chem., Salford

- M5 4WT, Lancashire, England): Thermal analysis of synthetic zeolites of the A series. II. Zeolites containing nickel and cobalt ions. *Thermochim. Acta* 11 (1975) 55
- EGOROV, E. A., ZHIZHENKOV, V. V., SAVOSTIN, A. YA., TOMASHEVSKII, E. E. (A. F. Ioffe Physicotech. Inst., Leningrad, USSR): Exothermal effects during fracture of polymers. *Fiz. Tverd. Tela* 17 (1975) 111 (In Russian)
- ENGEL, P. S., SHEN, L. (Rice Univ., Dept. Chem., Houston, Tex., 77001 USA): Photochemical and thermal decomposition of 1-pyrazolines. *Can. J. Chem.* 52 (1974) 4040
- FALICOV, L. M., KOILLER, B. (Univ. Calif., Dept. Phys., Berkeley, Calif., 94720 USA): Low temperature conductivity of transition-metal oxides. *J. Solid State Chem.* 12 (1975) 349
- FILISKO, F. E., RAGHAVA, R. S., YEH, G. S. Y. (Univ. Michigan, Dept. Mat. and Met. Engn., Ann Arbor, Mich., 48104 USA): Amorphous structure heat: temperature dependence of heats of solution for polystyrene in toluene and ethylbenzene. *J. Macromolek. Sci. Phys.* B10 (1974) 371
- FINCH, A., LEDWARD, D. A. (Univ. Waterloo, Fac. Math., Dept. Statistics, Waterloo, Ontario, Canada): A differential scanning calorimetric study of cysteine hydrochloride monohydrate. *Thermochim. Acta* 11 (1975) 157
- FRANKVOORT, W., DAMMERS, W. R. (Univ. Amsterdam, Lab. Chem. Technol., Amsterdam, Netherlands): Derivation of kinetic constants of simple reactions by means of adiabatic reaction calorimetry. *Thermochim. Acta* 11 (1975) 5
- FRIDLENDER, B. A., NESHPOR, V. S., KAPRALOV, V. K., MIROSHNICHENKO, A. G. (Moscow Appl. Chem. Inst., Moscow, USSR): Temperature and thermal conductivity of low density pyrolytic graphite. *High Temp. transl. Teplofiz. Vysok. Temp.* 12 (1974) 583
- FURUKAWA, S., KINOSHITA, T., WATANABE, M., BABA, M. (Kyoto Univ., Dept. Synth. Chem., Kyoto 606, Japan): Reactions of carbonyl-vinyl-stabilized sulfur ylides with alkoxides, and its thermolyses. *Heterocycles* 3 (1975) 99
- GAINSFORD, A. R., SISLEY, M. J., SWADDLE, T. W., BAYLISS, P. (c/o T. W. Swaddle, Univ. Calgary, Dept. Chem., Calgary T2N 1N4, Alberta, Canada): Hydrothermal formation of ferrite spinels. *Can. J. Chem.* 53 (1975) 12
- GAMZAZADE, A. I., ZHURAVLEVA, I. V., RODE, V. V., KORSHAK, V. V. (Acad. Sci. USSR, Heterog. Cpeds. Inst., Leningrad, USSR): Thermal stability of polymethylenephthalide. *Bull. Acad. Sci. USSR Div. Chem. Sci. transl. Izv. Akad. Nauk SSSR Ser. Khim.* 23 (1974) 1360
- GANEV, I. G., POKALOV, V. T. (All. Union Raw Mineral Inst., Moscow, USSR): Temperature gradient as a factor of differentiation of hydrothermal solutions zonality, and vertical extension of wolframite-molibdenite-quartz veins. *Doklad. Akad. Nauk SSSR* 220 (1975) 690 (In Russian)
- GARN, P. D., FREUND, F. (Univ. Akron, Akron, Ohio, 44325 USA): Variation of the thermal decomposition of magnesium hydroxide with water-vapour pressure. *Trans. J. Brit. Ceram. Soc.* 74 (1975) 23
- GARNAUD, G. (Univ. Poitiers, UER Sci. Exactes et Nat., 40 Ave Recteur Pineau, 86022 Poitiers, France): Détermination thermogravimétrique des énergies d'activation de l'oxydation d'un métal présentant trois formes oxydées: le titane. *Thermochim. Acta* 11 (1975) 267
- GEORGIEV, G. M., KITAEVA, G. K., MIKHAILOVSKII, A. G. (Moscow State Univ., Phys. Fac., Moscow, USSR): Universal thermocontroller with wide regulation range. *Prib. Tekhn. Eksp.* (1974) 154 (In Russian)
- GERRARD, D. L., MADDAMS, W. F. (British Petr. Co. Ltd., Epsom Div., Grp. Res., Epsom, Surrey, England): The resonance Raman spectrum of thermally degraded poly(vinyl chloride). *Macromolecules* 8 (1975) 54
- GERVASI, P. G., DE PETRIS, S., LUPINACCI, D. (Univ. Pisa, Fac. Ingn., Ist. Chim. Ind. ed Appl., Pisa, Italy): Synthesis and thermal properties of linear aromatic poly-(amidehydrazides) and corresponding poly-(amide-1,3,4-oxadiazoles) and poly(1,3,4-oxadiazolyl-benzoxazoles). *Europ. Polym. J.* 11 (1975) 233
- GILL, S. J., NICHOLS, N. F., WADSO, I. (Univ. Colorado, Chem. Dept., Boulder, Colo.,

- 80302 USA): Calorimetric determination of enthalpies of solution of slightly soluble liquids. I. Application to benzene in water. *J. Chem. Thermodyn.* 7 (1975) 175
- GILLHAM, J. K., BENCI, J. A., NOSHAY, A. (Princeton Univ., Dept. Chem. Engn., Princeton, N. J., 08540 USA): Isothermal transition of a thermosetting system. *J. Polym. Sci. C* (1974) 279
- GILLHAM, J. K., BENCI, J. A. (Princeton Univ., Dept. Chem. Engn., Princeton, N. J., 08540 USA): Thermomechanical behavior of uncrosslinked 1,5-poly-pentamers. *J. Appl. Polym. Sci.* 18 (1974) 3775
- GINZBURG, V. L., ZHARKOV, G. F., SOBYANIN, A. A. (P. N. Lebedev Phys. Inst., Moscow, USSR): Thermoelectric phenomena in superconductors and thermomechanical circulation effect in a superfluid liquid. *JETP Lett. transl. Zh. Eksp. Teoret. Fiz. Pism. Redakt.* 20 (1974) 97
- GOL'DBERG, V. M., BELITSKII, M. M., KRASOTKINA, I. A., TOPTYGIN, D. YA. (Acad. Sci. USSR, Chem. Phys. Inst., Moscow, USSR): Inhibited thermal oxidation of polystyrene. *Vysokomol. Soed. Ser. A* 17 (1975) 303 (In Russian)
- GOOD, W. O. (U.S. Dept. Interior, Bur. Min. Bartlesville Energy Res. Ctr., Bartlesville, Okla., 74003 USA): The standard enthalpies of combustion and formation of n-butylbenzene, the dimethylethylbenzenes, and the tetramethylbenzenes in the condensed state. *J. Chem. Thermodyn.* 7 (1975) 49
- GORBUNOV, Y. V., ESIN, Y. O., GELD, P. V. (S. M. Kirov Polytech. Inst., Sverdlovsk, USSR): Concentration dependencies of enthalpy of formation of liquid manganese and tin alloys at 1670 K. *Zh. Fiz. Khim.* 49 (1975) 226 (In Russian)
- GORINSTEIN, S. (Hebrew Univ. Sch. Pharm., Dept. Pharm. Chem., Jerusalem, Israel): A thermogravimetric study of the stability under heat of iron-protein complexes. *J. Agr. Food Chem.* 23 (1975) 45
- GREGORY, I. P., MOODY, D. E. (Roy. Aircraft Estab., Farnborough, Hampshire, England): The low temperature specific heat and magnetization of binary alloys of nickel with titanium, vanadium, chromium and manganese. *J. Phys. F* 5 (1975) 36
- GREWAL, S., SEKHON, B. S., CHOPRA, S. L. (c/o S. L. Chopra, Punjab Agr. Univ. Dept. Chem. and Biochem., Ludhiana, India): Stability and thermodynamics in the interaction of thioglycolic acid complexes with Y^{3+} , La^{3+} , Be^{2+} and UO^{2+} . *Thermochim. Acta* 11 (1975) 315
- GRIFFIN, J. A. (Princeton Univ., Joseph Henry Labs., Princeton, N. J., 08540 USA): An a.c. capacitance bridge temperature controller for use in strong magnetic fields at low temperatures. *Rev. Sci. Instr.* 46 (1975) 5
- GRIFFITHS, J. F., GILLIGAN, M. F., GRAY, P. (Univ. Leeds, Dept. Phys. Chem., Leeds, LS2 9JT, England): Pyrolysis of isopropyl nitrate. I. Decomposition at low temperatures and pressures. *Combust. Flame* 24 (1975) 11
- GRIMVALL, G., SJÖDIN, S. (Chalmers Univ. Technol., Inst. Theoret. Phys., S-40220 Göteborg 5, Sweden): Correlation of properties of materials to Debye and melting temperatures. *Phys. Scr.* 10 (1974) 340
- GROLIER, J. P. E., BENSON, G. C., PICKER, P. (Natl. Res. Council Canada, Div. Chem., Ottawa K1A 0R6, Ontario, Canada): Enthalpies of mixing of organic liquids measured directly as a function of composition by means of scanning dynamic flow microcalorimetry. *J. Chem. Thermodyn.* 7 (1975) 89
- GRØNVOLD, F. (Univ. Oslo, Dept. Chem., Oslo 3, Norway): Heat capacity and thermodynamic properties of metallic tin in the range 300 to 1,000 K. Fusion characteristics. *Rev. Chim. Miner.* 11 (1974) 568
- GRØNVOLD, F., SAMUELSEN, E. J. (Univ. Oslo, Dept. Chem., Oslo 3, Norway): Heat capacity and thermodynamic properties of α - Fe_2O_3 in the region 300–1050 K. Antiferromagnetic transition. *J. Phys. Chem. Solids* 36 (1975) 249
- GRUBERT, M., ACKERMANN, TH. (Univ. Freiburg, Inst. Phys. Chem., Freiburg, GFR): Ein empfindliches adiabatisches Differenzkalorimeter zur Untersuchung kooperativer Strukturumwandlungen in Lösungen. *Z. Phys. Chem. Frankfurt* 93 (1974) 255
- GUREVICH, M. Z., SAS, T. M., ZELENTOV, V. V., STEPIN, B. D., MAZEPOVA, N. E. (All. Union, Chem. Reagent and Highly Pure Chem. Subst. Res. Inst., Moscow, USSR): Effect of fluoro-substitution in ligand on thermal stability of transition

- metal betadiketonates. *Zh. Neorg. Khim.* 20 (1975) 452 (In Russian)
- GURRIERI, S., MAGGIORE, R., MUSUMECI, S., SIRACUSA, G. (Univ. Catania, Ist. Chim. Gen., Viale A. Doria 8, 95125 Catania, Italy): Thermal decomposition of metal complexes. III. Uranyl nitrate adducts with N-donor ligands. *Thermochim. Acta* 11 (1975) 73
- GUSEINOV, Z. A., DZHAFAROV, O. I., KARASHARLI, K. A. (Acad. Sci. AzSSR, Theoret. Prob. Chem. Technol. Inst., Baku, AzSSR): True heat capacity of 1,1,3,3,5,5-hexamethylcyclotrimethylenetrisilane in 12–300 K range. *Zh. Fiz. Khim.* 49 (1975) 219 (In Russian)
- GYÖRE, J., FARAGÓ, S. (Belügyminisztérium, Budapest, Hungary): A study of the thermal decomposition of cellulose and paper. I. *Magy. Kém. Foly.* 81 (1975) 36 (In Hungarian)
- HASEGAWA, H. (Univ. Tokyo, Inst. Solid State Phys., Roppongi, Tokyo, Japan): Specific heat due to spin fluctuations in nearly and weakly antiferromagnetic metals. *J. Phys. Soc. Japan* 38 (1975) 107
- HILL, D. J. T., MALAR, CH. (Univ. Queensland, Chem. Dept. St. Lucia, 4067, Queensland, Australia): The enthalpies of solution of ethanol, propan-1-ol, propan-2-ol and butan-1-ol in deuterium oxide. *Aust. J. Chem.* 28 (1975) 7
- HIROTSU, S. (Tokyo Inst. Technol., Fac. Sci., Dept. Phys., Meguro, Tokyo, Japan): Some optical and thermal properties of CsCuCl_3 and its phase transition near 423 K. *J. Phys. C* 8 (1975) L12
- HOLZHAUER, J. K., ZIEGLER, W. T. (c/o W. T. Ziegler, Georgia Inst. Technol., Sch. Chem. Engr., Atlanta, Ga., 30332 USA): Temperature dependence of excess thermodynamic properties of n-heptane–toluene, methylcyclohexane–toluene, and n-heptane–methylcyclohexane systems. *J. Phys. Chem.* 79 (1975) 590
- HOWELLS, R. D., GILMAN, H. (Iowa State Univ., Dept. Chem., Ames., Ia., 50010 USA): Thermal decomposition of some perfluoroalkyl Grignard reagents. Synthesis of trans-1-halo- and trans-1-alkyl-perfluorovinyl compounds. *J. Fluorine Chem.* 5 (1975) 99
- HSU, E. C. H., HABERFELD, J. L., JOHNSON, J. F., BARRALL II., E. M. (Univ. Connecticut, Dept. Chem., Storrs, Conn., 06268 USA): Thermal properties of binary mixtures of liquid crystals. *Mol. Cryst. Liquid Cryst.* 27 (1974) 269
- HUBERT, J. (Lab. Chim. Appl. Etat Solide, 15 Rue Georges Urbain, F-94 Vitry, France): Construction d'un diffractomètre haute température (3200°C) et application à l'étude structurale de la zircone ZrO_2 . *Rev. Int. Hautes Temp. Refr.* 11 (1974) 253
- HUST, J. G. (NBS, Inst. Basic Stand., Cryogenics Div., Boulder, Colo., 80302 USA): Low temperature thermal conductivity measurements on longitudinal and transverse sections of a superconducting coil. *Cryogenics* 15 (1975) 8
- IKRAMUDDIN, M., LIPSCHUTZ, M. E. (c/o M. E. Lipschutz, Purdue Univ., Dept. Geosci., W. Lafayette, Ind., 47907 USA): Thermal metamorphism of primitive meteorites. I. Variation of six trace elements in Allende carbonaceous chondrite heated at 400–1000°C. *Geochim. Cosmochim. Acta* 39 (1975) 363
- INDRASENAN, P., RAMACHANDRAN, NAIR, C. G. (c/o C. G. Ramachandran Nair, Univ. Kerala, Dept. Chem., Trivandrum, 695001, India): Thermal decomposition kinetics of p-toluenesulphonamide and some of its N-halogeno and N-methyl derivatives. *Thermochim. Acta* 11 (1975) 141
- ISAEV, F. K., ZAMANOVA, R. M. (Acad. Sci. AzSSR, Pys. Inst., Baku, AzSSR): Influence of the activating silver salt anions on thermal resistance of color centers in some NaCl-luminophors. *Izv. Akad. Nauk AzSSR* (1974) 13 (In Russian)
- ISHINABE, T. (Yamagata Univ., Fac. Engr., Yonezawa, Yamagata Prefec., Japan): Thermodynamic stability and melting of crystals in a bulk polymer. *Jap. J. Appl. Phys.* 14 (1975) 13
- ISHIHARA, A., KOJIMA, D. V. (State Univ. New York, Dept. Phys., Statistical Phys. Lab., Buffalo, N.Y., 14214 USA): The temperature and density dependences of the electronic specific heat. *Physica* 77 (1974) 469

- ITO, T., MIYAJI, H., ASAI, K. (Kyoto Univ., Fac. Sci., Dept. Phys., Kyoto, Japan): Thermal properties of α - and γ -forms of Nylon 6. *Jap. J. Appl. Phys.* 14 (1975) 206
- ITSKEVICH, E. S., KRAIDENOV, V. F. (Acad. Sci. USSR, High Pressure Phys. Inst., Moscow, USSR): Measuring heat conductivity of metals under pressure at low temperatures. *Prib. Tekhn. Eksp.* (1974) 170 (In Russian)
- IVANOVA, E. F., BOURMOSKALENKO, Z. O. (A. M. Gorkii State Univ., Kharkov, UkSSR): Calorimetric study of sodium acetate dissolution in acetic acid and acetic anhydride mixtures. *Zh. Fiz. Khim.* 49 (1975) 216 (In Russian)
- JEZEQUEL, J. Y., BARONNET, F., NICLAUSE, M. (Inst. Neurophysiol. and Psychophysiol. Lorraine, Lab. Chim. Gen., CNRS, 136, 1 rue Grandville, 54042 Nancy, France): Sur l'auto-inhibition, par un alcène, de la pyrolyse d'un alcane à deux stoechiométries primaires principales de décomposition. *J. Chim. Phys. Phys.-Chim. Biol.* 71 (1974) 1549
- JINDAL, V. K., PATHAK, K. N. (Panjab Univ., Dept. Phys., Chandigarh 160014, India): High-temperature heat capacity of an anharmonic crystal to $O(\lambda^4)$. *Phys. Rev. B* 11 (1975) 972
- JODY, B. J., SAXENA, S. C. (Univ. Illinois, Dept. Energy Engn., Chicago, Ill., 60680 USA): Thermal conductivity of neon from heat transfer measurements in the continuum and temperature-jump regimes. *Phys. Fluids* 18 (1975) 20
- JOHNSON, W. H., PROSEN, E. J. (NBS, Inst. Mat. Res., Washington, D.C., 20234 USA): The enthalpies of combustion and formation of the monochlorobenzoic acids. *J. Res. Nat. Bur. Stand. A* 78 (1974) 683
- JOLICOEUR, C., PHILIP, P. R. (c/o P. R. Philip, Univ. Sherbrooke, Dept. Chem., Sherbrooke, Quebec, Canada): Effect of temperature on the hydration of hydrophobic ions. Apparent molal volumes and heat capacities of Bu_4PBr , Ph_4PBr , and $NaBPh_4$ in aqueous solutions at various temperatures. *J. Solut. Chem.* 4 (1975) 3
- JONES, A., FIRTH, J. G., JONES, T. A. (Safety Mines Res. Establ., Dept. Energy, Red Hill, Sheffield S37 HQ, England): Calorimetric bead techniques for the measurement of kinetic data for gas-solid heterogeneous reactions. *J. Phys. E* 8 (1975) 37
- JOSHI, Y. P., SINGH, D. P. (Banaras Hindu Univ., Phys. Dept., Varanasi, 221005 India): On the low-temperature thermal conductivity of Ni-doped Al_2O_3 . *Solid State Commun.* 16 (1975) 307
- JOYCE, W. B. (Bell Tel. Labs. Inc., Murray Hill, N.J., 07974 USA): Thermal resistance of heat sinks with temperature-dependent conductivity. *Solid-State Electron.* 18 (1975) 321
- JOYCE, W. B., DIXON, R. W. (Bell Tel. Labs. Inc., Murray Hill, N.J., 07974, USA): Thermal resistance of heterostructure lasers. *J. Appl. Phys.* 46 (1975) 855
- KALASY, A. K., NAGESHWAR, G. D., MENE, P. S. (Laxminarayan Inst. Technol., Nagpur, India): Excess enthalpy of water + 2-ethoxyethanol. *J. Chem. Thermodyn.* 7 (1975) 101
- KAMILOV, I. K., MUSAEV, G. M., MAGOMEDOV, M. M., ALIEV, KH. K., SHAKHSHAEV, G. M. (V. I. Lenin State Univ., Makhachkala, USSR): Magnetization and magneto-calorimetric effect in $Y_3Fe_2O_{12}$ in the region of Curie temperature. *Fiz. Tverd. Tela* 17 (1975) 543 (In Russian)
- KAMILOV, I. K., SHAKHSHAEV, G. M., KHAMIDOV, M. (V. I. Lenin State Univ., Makhachkala, USSR): Phonon thermoconductivity of $Cu_{0.4}Cd_{0.6}Fe_2O_4$ in the region of Curie point. *Fiz. Tverd. Tela* 17 (1975) 316 (In Russian)
- KASATOCHKIN, V. I., YARES'KO, T. D., SMUTKINA, Z. S., KAZAKOV, M. E., EGOROVA, O. I. (All. Union Elect. Ceramic. Prod. Res. Inst., Moscow, USSR): Kinetics of the thermal transformations of polyacrylonitrile. *Vysokomol. Soedin. A* 17 (1975) 187 (In Russian)
- KAY, R., WESTWOOD, A. R. (De la Rue Res. Ctr., Maidenhead, Berkshire, England): DSC investigations on condensation polymers. I. Analysis of the curing process. *Eur. Polym. J.* 11 (1975) 25
- KERRIGAN, W. J., BANICK, C. J. (Du Pont Co., Savannah River Lab., Aiken, S.C., 29801 USA): Calorimetric measurement of alpha half-life of ^{242}Cm . *J. Inorg. Nucl. Chem.* 37 (1975) 641

- KIBA, N., TAKEUCHI, T. (Nagoya Univ., Fac. Engn., Dept. Synth. Chem., Chikusa, Nagoya, Japan): Thermometric titration of the formation of polyanions of molybdenum(VI), tungsten(VI), vanadium(V) and chromium(VI). IV. Effects of salts on the polymerization of molybdate and the depolymerization of molybdic acid. *J. Inorg. Nucl. Chem.* 37 (1975) 159
- KIGOSHI, A. (Tohoku Univ., Res. Inst. Mineral Dressing and Met., Sendai 980, Japan): Differential scanning calorimetry study of complex fluorides of titanium, niobium and tantalum. *Thermochim. Acta* 11 (1975) 35
- KIM, H., LAITINEN, H. A. (Univ. Florida, Dept. Chem., Gainesville, Fla., 32611 USA): Composition and conductivity of tin oxide films prepared by pyrohydrolytic decomposition of tin(IV) compounds. *J. Amer. Ceram. Soc.* 58 (1975) 23
- KING, K. D., GODDARD, R. D. (Univ. Adelaide, Dept. Chem. Engn., Adelaide 5001, Australia): Very low-pressure pyrolysis of cyclobutyl cyanide. Cyano stabilization energy. *Int. J. Chem. Kinet.* 7 (1975) 109
- KIRKHAM, W. G., LISTER, M. W., POYNTZ, R. B. (Univ. Toronto, Dept. Chem., Lash Miller Chem. Labs., 80 St. George St., Toronto M5S 1A1, Ontario, Canada): Relative olefin-metal bond strengths in some platinum(0) compounds. *Thermochim. Acta* 11 (1975) 89
- KISELEVA, I. A., TOPOR, N. D. (Moscow State Univ., Moscow, USSR): High-temperature heat capacity of sapphire. *Geokhim.* (1975) 312 (In Russian)
- KLAFFKY, R. W., MOHAN, N. S., DAMON, D. H. (Brookhaven Natl. Lab., Upton, N.Y., 11973 USA): Lattice thermal conductivity of deformed and annealed aluminium alloys in the temperature range 1.3–60 K. *Phys. Rev. B* 11 (1975) 1297
- KLIMENKO, L. P., SOLODUSHENKOV, S. M., DVORKO, T. F.: Effect of a solvent on temperature dependence of the addition rate of thiophenols to activated binary bond. *Dopov. Akad. Nauk UkrSSR Ser. B* (1974) 1111 (In Ukrainian)
- KO, H. C., O'HARA, W. F. (c/o W. F. O'Hara, USN Acad., Chem. Dept., Annapolis, Md., USA): Ionization of aqueous tropolone. *Thermochim. Acta* 11 (1975) 94
- KOCH, P. J., PEARCE, E. M., LAPHAM, J. A., SHALABY, S. W. (Allied Chem. Corp., Chem. Res. Ctr., Morristown, N.J., 07960 USA): Flame-retardant poly(ethyleneterephthalate). *J. Appl. Polym. Sci.* 19 (1975) 227
- KOCHETKOVA, A. P., SVESHNIKOVA, L. B. (N. S. Kurnakov Gen. and Inorg. Chem. Inst., Moscow, USSR): Thermography of rodium trichloride compounds with dialkyl sulfides. *Zh. Neorg. Khim.* 20 (1975) 210 (In Russian)
- KOLTA, G. A., ASKAR, M. H. (Natl. Res. Ctr., Cairo, UAR): Thermal decomposition of some metal sulphates. *Thermochim. Acta* 11 (1975) 65
- KONDO, K., NEGISHI, A. (Sagami Chem. Res. Ctr., Nishi Ohnuma 4-4-1, Sagami-hara 229, Kanagawa, Japan): Thermolysis of ethylene episulfoxide in methanol. Pummerer type rearrangement of thio-sulfonates. *Chem. Lett.* (1974) 1525
- KOPPITZ, B., WÜRFELING, A. (Univ. Bochum, Inst. Phys. Chem., 4630 Bochum, GFR): Differential thermal analysis at elevated pressure. 3. Investigation of rotational transition of some even normal-alkanes. *Colloid Polym. Sci.* 252 (1974) 999
- KORROVITS, V., LIIDJA, G., MIKHELISOO, V. (Acad. Sci. EsSSR, Inst. Phys., Tartu, EsSSR): Isothermal electrocaloric effect in KCl : OH. *Phys. Status Solidi B* 67 (1975) 695
- KORSHAK, V. V., BERESTNEVA, G. L., BRAGINA, I. P., ASTAFIEV, S. A. (Acad. Sci. USSR, Organoelement Cpd. Inst., Moscow, USSR): Investigation of thermal polycyclocondensation of polyhydrazides. *J. Polym. Sci. C* (1974) 25
- KORSHAK, V. V., KHOMUTOV, V. A., ZABEL'NIKOV, N. S., DANILOV, V. G., DOROSHENKO, YU. E., TSEITLIN, G. M. (D. I. Mendeleev Chem. Technol. Inst., Moscow, USSR): On the thermal stability of cardiac polybenzoxazoles. *Vysokomol. Soedin. A* 16 (1974) 2671 (In Russian)
- KOZAI, Y., IKEDA, Y., YOSHIDA, M. (Konan Univ., Fac. Sci., Dept. Chem., Kobe 658, Japan): The thermal polycondensation of glycine in the presence of urea. *Bull. Chem. Soc. Jap.* 47 (1974) 3125
- KOZINA, M. P., BYCHIKHINA, L. V., GALCHENKO, G. L., ORDUBADI, M., BELIKOVA,

- N. A., PLATE, A. F. (M. V. Lomonosov State Univ., Moscow, USSR): Enthalpy of combustion of 7,7-dimethylbicyclo-(2,2,1)-heptane and 2-ethylbicyclo-(2,2,1)-heptane. *Zh. Fiz. Khim.* 49 (1975) 242 (In Russian)
- KRONGAUZ, E. S., TRAVNIKOVA, A. P., ASKADSKII, A. A., BYCHKO, K. A., SLO-NIMSKII, G. L., KORSHAK, V. V. (Acad. Sci. USSR, Inst. Organoelement. Cpd., Moscow, USSR): Study of the heat stability of polybenzazoles. *Vysokomol. Soedin. A* 17 (1975) 28 (In Russian)
- KRZEWKI, R. J., PORTER, R. S., ATALLAH, A. M., NICHOLAS, H. J. (Diamond Shamrock, Painesville, Ohio, 44077 USA): Calorimetric study of liquid crystalline behavior for some 9,19-cyclopropane tetracyclic triterpene palmitates. *Mol. Cryst. Liquid Cryst.* 29 (1975) 127
- KUKUSHKIN, Y. N., KRYLOVA, G. S., KOTELNIKOV, V. P. (Lensovet Technol. Inst., Leningrad, USSR): Thermoisomerization of platinum(II)dithioether complexes. *Zh. Neorg. Khim.* 20 (1975) 539 (In Russian)
- KULLBERG, L. (Univ. Lund, Chem. Ctr., POB 740, S-22007 Lund 7, Sweden): Thermodynamics of metal complex formation in aqueous solution. V. Equilibrium and enthalpy measurements on the copper(II) and nickel(II) thiocyanate systems. *Acta Chem. Scand.* A 28 (1974) 829
- KULLBERG, L. (Univ. Lund, Chem. Ctr., POB 740, S-22007 Lund 7, Sweden): Thermodynamics of metal complex formation in aqueous solution. VII. Equilibrium and enthalpy measurements on the nickel(II)-selenocyanate system. *Acta Chem. Scand.* A 28 (1974) 897
- KULLBERG, L. (Univ. Lund, Chem. Ctr., POB 740, S-22007 Lund 7, Sweden): Thermodynamics of metal complex formation in aqueous solution. VIII. A calorimetric study of the mercury(II) thiocyanate, selenocyanate, and thiosulfate systems. *Acta Chem. Scand.* A 28 (1974) 979
- KUPRII, V. Z., LUNENOK-BURMAKINA, V. A. (Kiev Light Ind. Technol. Inst., Kiev, UkSSR): Isotopic study of thermal decomposition of uranium peroxides. *Zh. Neorg. Khim.* 20 (1975) 270 (In Russian)
- KUSHNIR, S. V. (Lvov Polytech. Inst., Lvov, UkSSR): Thermodynamic analysis of condensation of PO_4^{3-} ions during heating of tricalcium phosphate. *J. Appl. Chem. USSR* transl. *Zh. Prikl. Khim.* 47 (1974) 1518
- KUTYREVA, G. A., TARATORIN, G. A., KOSYKH, V. G., MIKHAILICHENKO, L. I.: Determination of hydrogen in titanium hydride by thermal decomposition method in vacuum. *Zavod. Lab.* 41 (1975) 22 (In Russian)
- LAI, Y. Z., SHAFIZADEH, F. (Univ. Montana, Dept. Chem., Wood Chem. Lab., Missoula, Mont., 59801 USA): Thermolysis of phenyl β -D-glucopyranoside catalyzed by zinc chloride. *Carbohydr. Res.* 38 (1974) 177
- LANCHESTER, P. C., WHITEHEAD, N. F., WELLS, P., SCURLOCK, R. G. (Univ. Southampton, Dept. Phys., Southampton, SO9 5NH, England): The low temperature specific heat of hexagonal cobalt in a magnetic field. *J. Phys. F* 5 (1975) 247
- LARIKOV, L. N., BAKLANOVA, L. M., GUREVICH, M. E. (Acad. Sci. UkSSR, Met. Phys. Inst., Kiev, UkSSR): Study of temperature dependence of true heat capacity of iron and nickel in the region of ferromagnetic transformation. *Dopov. Akad. Sci. UkSSR Ser. A* (1975) 164 (In Ukrainian)
- LARKIN, J. A. (Natl. Phys. Lab., Div. Chem. Stand., Teddington, England): Thermodynamic properties of aqueous non-electrolyte mixtures. I. Excess enthalpy for water + ethanol at 298.15 to 383.15 K. *J. Chem. Thermodyn.* 7 (1975) 137
- LARSON, G. L., FERNANDEZ, Y. V. (Univ. Puerto Rico, Dept. Chem., Rio Piedras, P. R., 00931 USA): The mechanism of the thermal rearrangement of β -ketosilanes. *J. Organometal. Chem.* 86 (1975) 193
- LASOCKA, M., MATYJA, H. (Warsaw Tech. Univ., Mat. Sci. Inst., Warsaw, Poland): Thermal stability of chalcogenide glasses Te-A^{IV} in relation to the atomic number of the A^{IV} element. *Phys. Status Solidi A* 26 (1974) 671
- LEE, S. H., MURPHY, R. M., WULFF, C. A. (Univ. Vermont, Dept. Chem., Burlington, Vt., 05401 USA): Thermodynamic properties of mixed valency compounds. III. Standard enthalpies of formation, Gibbs free energies of formation and

- stabilities of Cs_2SbBr_6 and Cs_3SbBr_5 . *J. Chem. Thermodyn.* 7 (1975) 33
- LEVITSKII, Y. V., KONEVSKII, B. I., MINCHENKO, V. I. (All. Union State Org. and Rational Power Plant and Network Ctr., Gorlovka, UkSSR): Analysis of multi-factor dependence parameters of heat-resistant properties of metals. *Zavod. Lab.* 41 (1975) 66 (In Russian)
- LIPKA, J., SITEK, J., CIRAK, J., PREJSA, M. (Slovak Tech. Univ., Dept. Nucl. Phys. and Tech., Bratislava, Czechoslovakia): Study of the heat decomposition of $FeSO_4 \cdot 7H_2O$ in the absence of oxygen. *Radiochem. Radioanal. Lett.* 20 (1974) 59
- LIU, L. G. (Australian Natl. Univ. Res., Sch. Earth Sci., Canberra, Australia): Disproportionation of $MgAl_2O_4$ spinel at high pressures and temperatures. *Geophys. Res. Lett.* 2 (1975) 9
- LOPATKINA, I. L., KUCHERSKAYA, L. A., KUZNETSOVA, A. G., SHAULOV, Y. K. (Moscow Electr. Machinery Inst., Moscow, USSR): Heats of evaporation of cyclosiloxane series. *Zh. Fiz. Khim.* 49 (1975) 251 (In Russian)
- LOSHCHININ, Y. V., VETROGRADSKII, V. A. (All. Union Aviat. Mat. Res. Inst., Moscow, USSR): Device for heat capacity measurements. *Zavod. Lab.* 41 (1975) 59 (In Russian)
- LUCHCHEIKIN, G. A., VOITESHONOK, L. I. (Moscow Sci. Res. Plastic Inst., Moscow, USSR): Peculiarities of the dipole-segmental relaxation in poly(ethylene terephthalate) studied by means of the electret-thermal analysis. *Vysokomol. Soed. A* 17 (1975) 429 (In Russian)
- LUCKENBACH, R., HORNER, L. (Univ. Mainz, Dept. Org. Chem., Johann Joachim Becher Weg 18-20, D-65 Mainz, GFR): Determination of the optical purity of chiral quaternary phosphonium salts by differential scanning calorimetry. *Thermochim. Acta* 11 (1975) 216
- LÜTH, H., NYBURG, S. C., ROBINSON, P. M., SCOTT, H. G. (Univ. Toronto, Lash Miller Chem. Labs., Toronto, Ontario, Canada): Crystallographic and calorimetric phase studies of the n-icosane, $C_{20}H_{42}$: n-docosane, $C_{22}H_{46}$ system. *Mol. Cryst. Liquid Cryst.* 27 (1974) 337
- LYASOTSKIY, I. V., TYAPKIN, YU. D., MESHKOVA, V. YE. (I. P. Bardin Cent. Ferrous Met. Inst., Met. and Phys. Dept., Moscow, USSR): Structure of niobium-titanium-zirconium alloys. Influence of gas impurities on structure change during heat treatment. *Fiz. Metal. Metalloved.* 38 (1974) 1282 (In Russian)
- MACHÁN, V., VLČEK, J., KOKTA, L., RUSEK, V., ŠMEJKAL, Z., ROHAČEK, J., VÍTKOVÁ, J. (Safarik Univ., Med. Fac., Košice, Czechoslovakia): Thermal separation of ^{99m}Tc from molybdenum trioxide. III. Diffusion separation of ^{99m}Tc from molybdenum trioxide from the standpoint of its possible use in technetium generator. *Radiochem. Radioanal. Lett.* 20 (1974) 33
- MACKENZIE, R. C., KEATCH, C. J., DANIELS, T., DOLLIMORE, D., FORRESTER, J. A., REDFERN, J. P., SHARP, J. H. (c/o C. J. Keatch, Ind. and Lab. Serv., POB 9, Lyme Regis, Dorsetshire, England): Nomenclature in thermal analysis. III. *Talanta* 22 (1975) 101
- MACLEOD, A. C., CLELAND, J. (Univ. Strathclyde, Dept. Met., Glasgow C1, England): Enthalpies of mixing in some binary molten alkali fluoride mixtures. *J. Chem. Thermodyn.* 7 (1975) 103
- MADDALONE, R. F., MCCLURE, G. L., WEST, P. W. (c/o P. W. West, Louisiana State Univ. Environm. Sci. Inst., Chem. Dept., Baton Rouge, La., 70803 USA): Determination of sulfate by thermal reduction of perimidylammonium sulfate. *Anal. Chem.* 47 (1975) 316
- MAKOSHI, K., MORIYA, T. (Univ. Tokyo, Inst. Solid State Phys., Roppongi, Tokyo, Japan): Effect of spin fluctuations on the specific heat of weakly and nearly ferromagnetic metals. *J. Phys. Soc. Japan* 38 (1975) 10
- MAKSIMOV, YU. V., SUZDALEV, I. P., ARENTS, R. A., MAKAROV, YE. F. (Acad. Sci. USSR, Chem. Phys. Inst., Moscow, USSR): Mössbauer study of thermal dissociation and magnetic properties of iron carbonitride $Fe_3C_{0.29}N_{0.30}$. *Fiz. Metal. Metalloved.* 38 (1974) 1300 (In Russian)
- MALHOTRA, S. L., HESSE, J., BLANCHARD, L. P. (Univ. Laval, Fac. Sci., Dept. Genie Chim., Laval G1K 7P4, Quebec, Canada): Thermal decomposition of polystyrene. *Polymer* 16 (1975) 81

- MALIKOV, V. Y., PANIKARSKII, A. S., BURACHAS, S. F. (All. Union Monocrystal Res. Inst., Kharkov, UkSSR): Utilization of a program temperature controller. *Zavod. Lab.* 41 (1975) 57 (In Russian)
- MAL'KOV, YU. E., BENIN, A. I., IZRAILIT, I. S., VILESOVA, M. S. (Moscow Appl. Chem. Inst., Moscow, USSR): Study of the kinetics of thermal degradation of polyethers and liquid rubbers. *Vysokomol. Soedin. A* 16 (1974) 2738 (In Russian)
- MAMEDOVA, K. M., ALIEV, A. N., DZHANGIROV, A. Y. (C. Ildrym Polytech. Inst., Baku, AzSSR): Heat conductivity and thermoelectromotive force of the solid solutions $(\text{ZnSb})_{1-x}(\text{CdSb})_x$. *Izv. Akad. Nauk AzSSR* (1974) 121 (In Russian)
- MARTIN, H. D., EISENMANN, E. (Univ. Freiburg, Chem. Lab., Albert Str. 21, D-7800 Freiburg, GFR): Thermolysis of syn- and anti-tricyclo[4.2.0.0.^{2,5}] octane. *Tetrahedron Lett.* (1975) 661
- MARVEL, C. S. (Univ. Arizona, Dept. Chem., Tuscon, Ariz., 85721 USA): New thermally stable adhesive resins. *Pure Appl. Chem.* 39 (1974) 57
- MATTINGLEY, B. I., FENBY, D. V. (Univ. Otago, Dept. Chem., Dunedin, New Zealand): Thermodynamic study of the deuterium isotope effect, the molar excess enthalpies of $\text{C}_6\text{D}_6 + \text{c-C}_6\text{H}_{12}$ and of $\text{C}_6\text{H}_6 + \text{c-C}_6\text{H}_{12}$. *Aust. J. Chem.* 28 (1975) 185
- MATTINGLEY, B. I., HANDA, Y. P., FENBY, D. V. (Univ. Otago, Dept. Chem., Dunedin, New Zealand): Aromatic fluorocarbon mixtures. 7. Excess enthalpies of hexafluorobenzene + triethylamine, + acetone, + diethyl ether, and + dimethyl sulphoxide. *J. Chem. Thermodyn.* 7 (1975) 169
- MAZZOCCHI, P. H., TAMBURIN, H. J. (Univ. Maryland, Dept. Chem., College Pk., Md., 20742 USA): Thermal rearrangement of ethyl-2-methyl-3-propenylcyclopropanecarboxylates. *J. Amer. Chem. Soc.* 97 (1975) 555
- MESSIKOMER, E. E., WOOD, R. H. (Univ. Delaware, Dept. Chem., Newark, Del., 19711 USA): The enthalpy of dilution of aqueous sodium chloride at 298.15 to 373.15 K, measured with a flow calorimeter. *J. Chem. Thermodyn.* 7 (1975) 119
- MEYER, R., MEYER, M., BARES, D., VINCENT, E. J. (Fac. Sci. St. Jérôme, Lab. Struct. et Reactiv. Serie Hétérocyclique, CNRS, Rue H. Poincaré, 13397 Marseille, France): Enthalpies of mixing of some binary mixtures of thiazole. *Thermochim. Acta* 11 (1975) 211
- MIKHAILOV, G. M., VASIL'eva, G. G., PETROPAVLOVSKII, G. A. (Acad. Sci. USSR, Inst. Macromolec. Cpds., Leningrad, USSR): Thermal stability of soluble and cross-linked cellulose acetates. *J. Appl. Chem. USSR transl. Zh. Prikl. Khim.* 47 (1974) 1652
- MIKLER, J., REIFFENSTEIN, E. (Univ. Vienna, Inst. Anorg. Chem., Währinger Str. 42, A-1090 Wien, Austria): Einige Probleme im Zusammenhang mit der direkten Bestimmung der spezifischen Wärmen mittels Differential Scanning-Kalorimetrie. *Monatsh. Chem.* 106 (1975) 85
- MILLER, G. H., LOCKWOOD, G. J., HALBLEIB, J. A. (Sandia Labs., Albuquerque, N.M., 87115 USA): Improved calorimetric method for energy deposition measurement. *IEEE Trans. Nucl. Sci.* 21 (1974) 359
- MILONJIĆ, S. K., RUVARAC, A. L., ŠUŠIĆ, M. V. (Boris Kidric Inst., Chem. Dynam. Lab., POB 522, 11001 Belgrade, Yugoslavia): The heat of immersion of natural magnetite in aqueous solutions. *Thermochim. Acta* 11 (1975) 261
- MINSKER, K. S., ABDULLIN, M. I., GIL'MANOVA, M. G. (Bashkir State Univ., Ufa, USSR): Influence of the phenol type compounds on the degradation of poly(vinyl chloride). *Vysokomol. Soedin. B* 16 (1974) 916 (In Russian)
- MINSKER, K. S., LIAKUMOVICH, A. G., SANGALOV, YU. A., SVIRSKAYA, O. D., KOROBENIKOVA, V. N., GAZIZOV, A. KH. (Bashkir State Univ., Ufa, USSR): Thermal and thermal-oxidative degradation of poly-3-methylbutene-1. *Vysokomol. Soedin. A* 16 (1974) 2751 (In Russian)
- MISKARLI, A. K., ZEMLYANSKAYA, V. YA., ABDULRAGIMOVA, N. M. (Acad. Sci. AzSSR, Inorg. and Phys. Chem. Inst., Baku, AzSSR): Effect of hydrothermal treatment on the structural-mechanical properties of aqueous marl suspensions. *Colloid J. USSR transl. Koll. Zh.* 36 (1974) 735

- MITAROV, R. G., TIKHONOV, V. V., VASILIEV, L. N., OSKOTSKII, V. S., GOLUBKOV, A. B., SMIRNOV, I. A. (A. F. Ioffe Physicotech. Inst., Leningrad, USSR): Specific heat of Pr_3Te_4 and La_3Te_4 . *Fiz. Tverd. Tela* 17 (1975) 496 (In Russian)
- MOHAI, B., BENCZE, L. (Univ. Chem. Ind. Veszprém, Dept. Gen. and Inorg. Chem., Veszprém, Hungary): Die thermische Zersetzung von metallorganischen Wolfram- und Molybdänkomplexen des Typs $\text{M}(\text{CO})_n\text{Cl}_2\text{L}_2$. *Thermochim. Acta* 11 (1975) 323
- MURARKA, S. P. (Bell Tel. Labs. Inc., Murray Hill, N. J., 07974 USA): Thermal oxidation of GaAs. *Appl. Phys. Lett.* 26 (1975) 180
- MURATA, K., MAKINO, T. (Mitsui Shipbldg. and Engr. Co., Chiba Lab., Ichihara 290, Japan): Thermal degradation of polypropylene. *J. Chem. Soc. Japan Chem. Ind. Chem.* (1975) 192 (In Japanese)
- NABAR, M. A., PARALKAR, S. V. (Univ. Bombay, Dept. Chem., Bombay 400029, India): Thermal decomposition of some divalent metal selenates. *Thermochim. Acta* 11 (1975) 187
- NAGATA, I. (Kanazawa Univ., Dept. Chem. Engr., Kanazawa 920, Japan): Prediction of heats of mixing for ternary alcoholsaturated hydrocarbon mixtures. *J. Chem. Eng. Data* 20 (1975) 110
- NAMETKIN, N. S., GUSELNIKOV, L. E., ORLOV, V. Y., DOLGOPOLOV, N. N., GRINBERG, P. L., VDOVIN, V. M. (A. V. Topchiev Petrochem. Synth. Inst., Moscow, USSR): Thermal decomposition and dissociative ionization of 4-silas-piroalkanes. *Zh. Obshch. Khim.* 45 (1975) 69 (In Russian)
- NAMETKIN, N. S., GUSELNIKOV, L. E., VDOVIN, V. M. (A. V. Topchiev Petrochem. Synth. Inst., Moscow, USSR): Thermal stability of mono and disilacylbutanes. Susceptibility to dissociation resulting in the formation of silicic analogues of olefines. *Dokl. Akad. Nauk SSSR* 220 (1975) 386 (In Russian)
- NAMIKAWA, T., SATOU, M. (Tokyo Inst. Technol., Meguro 152, Tokyo, Japan): Differential thermal analysis on the formation process of CrO_2 under high oxygen pressure. *J. Chem. Jap. Chem. Ind. Chem.* (1975) 52 (In Japanese)
- NARAYANA, K. L., SWAMY, K. M. (Reg. Res. Lab., Bhubaneswar 751004, India): Debye temperature in noble metals. *Mater. Sci. Eng.* 18 (1975) 157
- NASIROV, YA. N., AKHMEDOVA, G. M., ZEINALOV, A. A. (Acad. Sci. AzSSR, Phys. Inst., Baku, AzSSR): Thermoelectric properties of single crystals of silicon monotelluride. *Inorg. Mater. transl. Izv. Akad. Nauk SSSR Neorg. Mater.* 10 (1974) 966
- NAUMOV, V. B., NIKITIN, A. A., SALAZKIN, A. N. (V. I. Vernadskii Geochem. and Anal. Chem. Inst., Moscow, USSR): Thermometric investigation of melt inclusions in phenocrysts of quartz of acid effusives in the Eastern Transbaikal region. *Geokhim.* (1975) 295 (In Russian)
- NICHOLLS, D., SEDDON, K. R. (Univ. Liverpool, Donnan Labs., Liverpool L69 3BX, England): Thermal decomposition of some oxobromovanadium(IV) complexes. *J. Inorg. Nucl. Chem.* 37 (1975) 320
- OAE, S., FUJIMORI, K., KOZUKA, S., UCHIDA, Y. (c/o S. Kozuka, Osaka City Univ., Fac. Engr., Dept. Appl. Chem., Sumiyoshi, Osaka 558, Japan): Decomposition of diacyl peroxides. VIII. Mechanism of thermal decomposition of cyclopropaneacetyl peroxide. *J. Chem. Soc. Perkin Trans. II.* (1974) 1844
- OCHKIN, A. V., VINETSKAYA, T. N., FROLOV, Y. G. (D. I. Mendeleev Chem. Technol. Inst., Moscow, USSR): Heats of dissolution of tertiary amine salts in organic solvents. *Zh. Fiz. Khim.* 48 (1974) 2951 (In Russian)
- ODIER, PH., BAUMARD, J. F., PANIS, D., ANTHONY, A. M. (CNRS Ctr. Rech. Phys. Haut Temp. 45045 Orléans, France): Thermal emission electrical conductivity, and Hall effect for defects study at high temperature ($T \geq 1250^\circ\text{K}$) in refractory oxides (Y_2O_3 , TiO_2). *J. Solid State Chem.* 12 (1975) 324
- O'HARA, S. G., ANDERSON, A. C. (Univ. Illinois, Dept. Phys., Urbana, Ill., 61801 USA): The electronic thermal conductivity of strained aluminium below 1K. *Phys. Status Solidi B* 67 (1975) 405

- O'HARE, P. A. G., JOHNSON, G. K. (Argonne Natl. Lab., Chem. Engr. Div., Argonne, Ill., 60439 USA): Lithium nitride (Li_3N): standard enthalpy of formation by solution calorimetry. *J. Chem. Thermodyn.* 7 (1975) 13
- OSAKA, T., MAKITA, Y., GESI, K. (Sci. Univ. Tokyo, Fac. Sci., Dept. Appl. Phys., Kagurazaka, Shinjuku 162, Tokyo, Japan): Pyroelectricity of dicalcium lead propionate associated with its phase transitions. *J. Phys. Soc. Japan* 38 (1975) 292
- OUENSANGA, A., PIALOUX, A., DODÉ, M. (Univ. Paris S, Ctr. Orsay, Lab. Chim. Thermodynam., F-91405 Orsay, France): High temperature X-ray study of the Zr-O-C system in thermodynamical equilibrium conditions and in vacuum. *Rev. Int. Hautes Temp. Refr.* 11 (1975) 289
- PACIOREK, K. L., KRATZER, R. H., KAUFMAN, J., NAKAHARA, J., HARTSTEIN, A. M. (Ultrasystems Inc., Irvine, Calif., 92664 USA): Oxidative thermal decomposition of poly(vinyl chloride) compositions. *J. Appl. Polym. Sci.* 18 (1974) 3723
- PADMA, D. K., VASUDEVA MURTHY, A. R. (Indian Inst. Sci., Dept. Inorg. and Phys. Chem., Bangalore 560012, India): Thermal decomposition of sulphur hexafluoride. *J. Fluorine Chem.* 5 (1975) 181
- PANKRAT'EV, YU. D. (Acad. Sci. USSR, Catal. Inst., Novosibirsk, USSR): Absorption-calorimetric study of reaction mechanism in catalytic oxidation of carbon monoxide and hydrogen on nickel(II) oxide. I. Oxidation of carbon monoxide. *Kinet. Catal. transl. Kinet. Kat.* 15 (1974) 564
- PANKRAT'EV, YU. D. (Acad. Sci. USSR, Catal. Inst., Novosibirsk, USSR): Absorption-calorimetric study of reaction mechanism in catalytic oxidation of carbon monoxide and hydrogen on nickel(II) oxide. II. Oxidation of hydrogen. *Kinet. Catal. transl. Kinet. Kat.* 15 (1974) 571
- PATERSON-JONES, J. C. (CSIR, Private Bag, X105, Somerset West, South Africa): The thermal degradation of model compounds of amine-cured epoxide resins. III. The thermal degradation of 1-(N-ethylanilino)-3-phenoxyprop-2-yl acetate, trifluoroacetate, and methyl ether and O-deuterated 1-(N-ethylanilino)-3-phenoxypropan-2-ol. *J. Appl. Polym. Sci.* 19 (1975) 391
- PATTERSON, J. M., FERRY, J. D., DEHAAN, J. W., BOYD, M. R. (Univ. Kentucky, Dept. Chem., Lexington, Ky., 40506 USA): Thermal rearrangements of (substituted allyl)dialkyl-2H-pyrroles. *J. Amer. Chem. Soc.* 97 (1975) 360
- PATTERSON, J. M., HAIDAR, N. F., SMITH, W. T. Jr. (Univ. Kentucky, Dept. Chem., Lexington, Ky., 40506 USA): The thermal interconversion of 1- and 2-naphthonitriles. *Chem. Ind.* (1975) 128
- PAVLIKOV, V. N., VASILEGA, N. D., KOROBANOVA, N. L., TRESVYATSKY, S. G. (Acad. Sci. UkSSR, Mat. Technol. Inst., Kiev, UkSSR): Study of thermal decomposition of the mixture yttrium carbonate-chromium hydroxide-ammonium nitrate. *Dopov. Akad. Nauk UkSSR Ser. B* (1974) 1115 (In Ukrainian)
- PELOUS, J., VACHER, R. (Univ. Sci. and Tech. Languedoc, CNRS 460, Lab. Spectrometric Rayleigh Brillouin, 34060 Montpellier, France): Thermal Brillouin scattering measurements of the attenuation of longitudinal hypersounds in fused quartz from 77 to 300 K. *Solid State Commun.* 16 (1975) 279
- PENG, S. T. J., LANDEL, R. F. (Calif. Inst. Technol., JET Prop. Lab., Pasadena, Calif., 91103 USA): Induced anisotropy of thermal conductivity of polymer solids under large strains. *J. Appl. Polym. Sci.* 19 (1975) 49
- PERNICONE, J. R., SCHROEDER, P. A. (Michigan State Univ., Dept. Phys., E. Lansing, Mich., 48824 USA): Temperature and magnetic field dependence of the electric and lattice conductivities of tin from 1.3 to 6°K. *Phys. Rev. B* 11 (1975) 588
- PETHICK, C. J., SMITH, H., BHATTACHARYYA, P. (Univ. Illinois, Dept. Phys., Urbana, Ill., 61801 USA): Viscosity and thermal conductivity of superfluid ^3He : Low-temperature limit. *Phys. Rev. Lett.* 34 (1975) 643
- PEYKOV, P. H., KASCHIEVA, S. B., MATEV, I. M. (Bulgarian Acad. Sci., Solid State Phys. Inst., Sofia, Bulgaria): Influence of thermal treatment on MoS structures with damaged Si-SiO₂ interface. *Dokl. Bulg. Akad. Nauk.* 27 (1974) 1477
- PHAN, XUAN, D., CASTANET, R., LAFFITTE,

- M. (CNRS, Ctr. Rech. Microcalorimétrie and Thermochem., 26 Rue 141 Ria., F 13003 Marseille, France): Partial enthalpy of dissolution of γ -alumina in cryolite and transformation enthalpy between γ - and α -alumina. *Rev. Int. Hautes Temp. Refr.* 11 (1974) 285
- PHILLIPS, C. H., GAMBELL, N. A., FOUNTAIN, D. S. (Kennecott Copper Corp., Geol. Dept., Ray Mines Div., Hayden, Ariz., 85235 USA): Hydrothermal alteration, mineralization, and zoning in the ray deposit. *Econ. Geol.* 69 (1974) 1237
- PIERRE, J., MARCHAL, E. (Univ. Liège, Lab. Chim. Phys., Sart Tilman, 4000 Liège, Belgium): Thermal behavior of solutions of poly(n-alkylisocyanates). *J. Polym. Sci. Polym. Lett. Ed.* 13 (1975) 11
- PLISKO, E. A., SAZANOV, YU. N., BAULIN, A. A., BAKLAGINA, YU. G., LEVDIK, I. YU. (Acad. Sci. USSR, Inst. Macromolec. Cpd., Leningrad, USSR): Influence of trimethylsilyl groups in hydrate cellulose fiber on its structure and thermal properties. *J. Appl. Chem. USSR* transl. *Zh. Prikl. Khim.* 47 (1974) 1656
- POGODIN, V. P., KORYAGINA, T. N., KARAPETYANTS, M. K. (D. I. Mendeleev Chem. Technol. Inst., Moscow, USSR): Heat conductivity of formamide electrolyte solutions. I. Dependence of heat conductivity coefficients on concentration. *Zh. Fiz. Khim.* 48 (1974) 2931 (In Russian)
- POULIQUEN, J. M., MEZENCEV, R., OFFRET, S. (E.N.S.M., Lab. Phys. Met., 3 Rue Maréchal Joffre, 44000 Nantes, France): Étude de la gélification du PVC extrudé par analyse thermique différentielle. *Compt. Rend. Ser. C.* 279 (1974) 1013
- PRAKASH, A. S., SWANN, W. A., STRACHAN, A. N. (c/o A. N. Strachan, Loughborough Univ. Technol., Dept. Chem., Loughborough LE11 3TU, Leicestershire, England): The thermal decomposition of azodicarbonamide(1,1'-azobisformamide). *J. Chem. Soc. Perkin Trans. II.* (1975) 46
- PRAKASH, J., HEMKAR, M. P. (Univ. Allahabad, Dept. Phys., Allahabad, India): Electrical and thermal resistivity of noble metals. *Nuovo Cimento B* 25B (1975) 45
- PRICE, S. J. W., SAPIANO, H. J. (Univ. Windsor, Dept. Chem., Windsor, N9B 3P4, Ontario, Canada): C_6F_5X bond dissociation energies: determination from appearance potential measurements and correlation with thermochemical data. *Can. J. Chem.* 52 (1974) 4109
- PRIVALOV, P. L., PLOTNIKOV, V. V., FILIMONOV, V. V. (Acad. Sci. USSR, Prof. Res. Inst., Poustchino, USSR): Precision scanning microcalorimeter for the study of liquids. *J. Chem. Thermodyn.* 7 (1975) 41
- PUDEV, L. M., DYAGILEVA, L. M., ALEKSANDROV, Y. A. (N. I. Lobachevskii State Univ., Chem. Inst., Gorki, USSR): Pyrolysis of diisopropylnickelocene and chromium bisethylbenzene. *Zh. Obshch. Khim.* 45 (1975) 245 (In Russian)
- QUINN, T. J., COMPTON, J. P. (Natl. Phys. Lab., Teddington, Middlesex, England): The foundations of thermometry. *Rep. Progr. Phys.* 38 (1975) 151
- RADAK, B. B., GAL, O. S., MARKETOS, D. G., BOYD, A. W. (Boris Kidrič Inst., Nucl. Sci., Radiat. Chem. Dept., Belgrade, Yugoslavia): Intercomparison in-pile dosimetry in GRR-1 calorimeters and chemical dosimeters: cyclohexane and dicarboxylic acids. *Int. J. Appl. Radiat. Isotop.* 26 (1975) 43
- RADEGLIA, R., STOREK, W. (DAWB, Zent. Inst. Phys. Chem., Bereich Phys. Methoden Anal. Chem., 1199 Berlin): Correlation between NMR parameters and thermodynamic measures. Chemical shift of hydroxyl protons and molar heats of dilution in tert-butanol- CCl_4 system and tert-butanol- C_6H_6 system. *Z. Chem.* 15 (1975) 78 (In German)
- RANDON, J. L., SLAMA, G. (École Mines Paris, Ctr. Mat., BP 114, F-91102 Corbeil, France): Caractérisation et étude de la stabilité thermique de la fibre de carbure de silicium. *Rev. Int. Hautes Temp. Refr.* 11 (1974) 313
- RATKOVSKY, I. A., BUTYLIN, B. A., NOVIKOV, G. I. (S. M. Kirov Technol. Inst., Minsk, BeSSR): Thermodynamic study of $Ca(PO_3)_2$ thermal dissociation. *Dokl. Akad. Nauk BeSSR* 19 (1975) 139 (In Russian)
- REED, W. A., HSU, F. S. L., SCHUTZ, R. J., GRAEBNER, J. E., GUGGENHEIM, H. J. (Bell Tel. Labs. Inc., Murray Hill, N.J., 07974 USA): Low-temperature specific heat of a one-dimensional system:

- $K_2Pt(CN)_4Br_{0.3} \cdot 3H_2O$. *Phys. Rev. Lett.* 34 (1975) 473
- REINSTEIN, L. E., ZIMMERMAN, G. O. (Boston Univ., Dept. Phys., Boston, Mass., 02215 USA): Measurement of the thermal boundary resistance between solid 3He and cerium magnesium nitrate. *Phys. Rev. Lett.* 34 (1975) 458
- REMY, J. C., PAULEAU, Y. (Fac. Sci. Angers, UER Sci. and Tech., Thermodynam. and Mineral Physico-Chem. Lab., Blvd. Lavoisier, 49045 Angers, France): Microdetermination of nitrogen by means of a thermal conductivity detector. Application to the determination of nitrogen in tin-nitrogen and germanium-nitrogen compounds. *Anal. Chem.* 47 (1975) 583
- RIGBY, B. J., ROBINSON, M. S. (CSIRO, Div. Text. Phys., 338 Blaxland Rd., Ryde 2112, New S. Wales, Australia): Thermal transitions in collagen and the preferred temperature range of animals. *Nature* 253 (1975) 277
- RIPPIE, E. G., IBRAHIM, H. G. (Univ. Minnesota, Coll. Pharm., Dept. Pharm., Minneapolis, Minn., 55455 USA): Nematic-isotropic solution thermodynamics in di(p-methoxyphenyl)-trans-cyclohexane-1,4-dicarboxylate. *Thermochim. Acta* 11 (1975) 125
- ROBERGE, R. (Inst. Rech. Hydro Quebec, Varennes, Quebec, Canada): Lattice parameter of niobium between 4.2 and 300 K. *J. Less-Common Metals* 40 (1975) 161
- ROGERS, R. N. (Los Alamos Sci. Lab., Univ. Calif., Los Alamos, N. M., 87544 USA): Thermochemistry of explosives. *Thermochim. Acta* 11 (1975) 131
- ROUQUEROL, J., ROUQUEROL, F., GANTEAUME, M. (CNRS, Ctr. Rech. Microcalorimétrie et Thermochim., 26 Rue 141 Ria, 13003 Marseille, France): Thermal decomposition of gibbsite under low pressures. I. Formation of the boehmitic phase. *J. Catalysis* 36 (1975) 99
- ROWLAND, T., CUSACK, N. E., RASS, R. G. (S. Berks Coll. Further Educ., Oxford Rd., Newbury, Berkshire, England): The resistivity and thermoelectric power of the palladium-gold alloy system. *J. Phys. F* 4 (1974) 2189
- RUD', YU. V., SANIN, K. V. (A. F. Ioffe Physicotech. Inst., Leningrad, USSR): Characteristics of high-temperature electrical conductivity of CdTe crystals doped with indium. *Inorg. Mater. transl. Izv. Akad. Nauk SSSR Neorg. Mater.* 10 (1974) 839
- RUDZINSKII, M. A., SEIDOV, Z. F. (Shemakha Astrophys. Observ., Shemakha, AzSSR): Thermal effects in beta-processes. *Izv. Akad. Nauk AzSSR* (1974) 98 (In Russian)
- RUSEK, V., VLČEK, J., MACHÁČ, V., ROHÁČEK, J., SMEJKAL, Z., KOKTA, L., VITKOVÁ, J. (Univ. Chem. Technol. Pardubice, Pardubice, Czechoslovakia): Thermal separation of ^{99m}Tc from molybdenum trioxide. I. Separation of ^{99m}Tc from molybdenum trioxide at temperatures below 650 °C. *Radiochem. Radianat. Lett.* 20 (1974) 15
- RUSZ-SZÓRÁD, J., HALÁSZ, A. (Dept. Anal. Chem., Univ. Chem. Engn., Veszprém, Hungary): Thermometric titration with the MOM "Silicotherm" instrument. *Hung. Sci. Instr.* (1975) 25
- RYTING, I. H., CHATTERJI, D. C., HIGUCHI, T., COOKE, P. H. (Univ. Kansas, Dept. Pharm. Chem., Lawrence, Kans., 66045 USA): Effects of temperature and pressure on short term storage of platelets. *Nature* 253 (1975) 539
- SAALFRANK, R. W. (Univ. Erlangen Nürnberg, Inst. Org. Chem., Erlangen, GFR): Thermische Umlagerung eines 2H-Pyrans. *Tetrahedron Lett.* (1975) 295
- SAKHAROVA, Y. G., SAKHAROVA, N. N., BORISOVA, G. M.: Thermal stability of terbium, dysprosium, holmium and erbium thiocarbamide complexes. *Zh. Neorg. Khim.* 20 (1975) 359 (In Russian)
- SALAMON, M. B., BRAY, J. W., DE PASQUALI, G., CRAVEN, R. A., STUCKY, G., SCHULTZ, A. (Univ. Illinois, Dept. Phys., Urbana, Ill., 61801 USA): Thermal conductivity of tetrathiafulvalenetetracyanoquinodimethane (TTF-TCNQ) near the metal-insulator transition. *Phys. Rev. B* 11 (1975) 619
- SAMUSKEVICH, V. V., PRODAN, E. A., PAVLYUCHENKO, M. M. (Acad. Sci. BeSSR, Gen. and Inorg. Chem. Inst., Minsk, BeSSR): Production and peculiarities of thermal decomposition of crystal lanthanum carbonate. *Dokl. Akad. Nauk BeSSR* 19 (1975) 144 (In Russian)
- SARBAEV, A. N., GERBERT, G. P., MALYSHEVA, L. S. (Dzerzhinsk Nitrogen Ind.

- and Org. Synth. Prod. Inst., Dzerzhinsk, USSR): Pyrolysis kinetics of carbamide in the system $\text{CO}(\text{NH}_2)_2\text{-NH}_4\text{H}_2\text{PO}_4\text{-KCl-H}_2\text{O}$. *J. Appl. Chem. USSR transl. Zh. Prikl. Khim.* 47 (1974) 1309
- SCENEY, C. G., HILL, J. O., MAGEE, R. J. (Shell Chem. Australia, Proprietary Ltd., 155 William St., Melbourne 3000, Victoria, Australia): Thermal analysis of copper dithiocarbamates. *Thermochim. Acta* 11 (1975) 301
- SCHLICHENMAIER, V. (Mettler Instr. A.G., Appl. Lab. Greifensee, Switzerland): Detection and quantitative determination of $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$ in $\text{CaSO}_4 \cdot 1/2\text{H}_2\text{O}$ using calorimetric DTA. *Thermochim. Acta* 11 (1975) 334
- SCHNEIDER, N. S., PAIK SUNG, C. S., MATTON, R. W., ILLINGER, J. L. (Army Mat. and Mech. Res. Ctr., Polymers and Chem. Div., Watertown, Mass., 02172 USA): Thermal transition behavior of polyurethanes based on toluene diisocyanate. *Macromolecules* 8 (1975) 62
- SEIFER, G. B. (N. S. Kurnakov Gen. and Inorg. Chem. Inst., Moscow, USSR): Thermal migration of ligands in ferrocyanides of transition metal amines. *Dokl. Akad. Nauk SSSR* 220 (1975) 120 (In Russian)
- SESHIMOTO, O., TEZUKA, T., MUKAI, T. (Tohoku Univ., Fac. Sci., Dept. Chem., Sendai 980, Japan): Thermal and photochemical reactions of bicyclo[3,2,0]heptadienes containing C=N-O group. *Heterocycles* 3 (1975) 78
- SHARMA, B. R., PUNDEER, G. S., SINGH, P. P. (c/o P. P. Singh, M. L. K. Coll., Chem. Dept., Balrampur, Uttar Pradesh, India): Thermodynamics of weak interactions: excess enthalpies and excess Gibbs free energies of mixing. *Thermochim. Acta* 11 (1975) 105
- SHEINKMAN, A. I., KASPEROVICH, V. M., KLESHCHEV, G. V., SKOMOROKHA, V. N., VASIL'CHENKO, V. D., SAVCHENKO, P. I.: Some characteristics of crystal formation during heating of hydrated titanium dioxide. *J. Appl. Chem. USSR transl. Zh. Prikl. Khim.* 47 (1974) 1763
- SHELBY, J. E. (Sandia Labs., Livermore, Calif., 94550 USA): Thermal expansion of mixed-alkali germanate glasses. *J. Appl. Phys.* 46 (1975) 193
- SHEVCHENKO, Y. N., DAVIDENKO, N. K., YATSIMIRSKII, K. B. (L. V. Pisarzhevskii Phys. Chem. Inst., Kiev, UkSSR): Thermal dissociation of cobalt(III) hexamino fluoride and chromium(III)hexamino fluoride. *Zh. Neorg. Khim.* 20 (1975) 406 (In Russian)
- SHIMIZU, A., FURUICHI, R., ISHII, T. (Hokkaido Univ., Fac. Engn., Dept. Appl. Chem., Kita 060, Sapporo, Japan): The thermal decomposition reaction of ammonium metavanadate by gas-flow DTA technique. *J. Chem. Soc. Jap. Chem. Indust. Chem.* (1975) 39 (In Japanese)
- SHIRONO, K., YAMABE, T., VEHARA, M., IKAWA, T., SUZUKI, S. (Tokyo Inst. Technol., Res. Lab. Resources Utilizat., Meguro 152, Tokyo, Japan): Calorimetric measurement of the heat of hydrogen adsorption on palladium. *J. Chem. Soc. Japan Chem. Ind. Chem.* (1975) 35 (In Japanese)
- SILL, L. R., DRENSKY, S. M. (No. Illinois Univ., Dept. Phys., DeKalb, Ill., 60115 USA): Sample temperature measurement in the PAR vibrating sample magnetometer oven. *Rev. Sci. Instr.* 46 (1975) 221
- SLACK, G. A., BARTRAM, S. F. (G. E. Res. and Dev. Ctr., P.O.B. 43 Schenectady, N. Y., 12301 USA): Thermal expansion of some diamond-like crystals. *J. Appl. Phys.* 46 (1975) 89
- SLAUGHTER, J., KERRICK, D. M., WALL, V. J. (Penn. State Univ., Dept. Geosci. University Pk., Pa., 16802 USA): Experimental and thermodynamic study of equilibria in the system $\text{CaO-MgO-SiO}_2\text{-H}_2\text{O-CO}_2$. *Amer. J. Sci.* 275 (1975) 143
- SLEBARSKI, A., KONOPKA, D., CHELKOWSKI, A. (Univ. Slaski, Inst. Fiz., Uniwersytecka 4, 40007 Katowice, Poland): X-ray investigations of temperature dependence of the lattice constants of HgCr_2S_4 , HgCr_2Se_4 , CdCr_2S_4 , CdCr_2Se_4 , CuCr_2Se_4 , ZnCr_2Se_4 polycrystals in a temperature range from 70 °K to the decomposition temperature. *Phys. Lett. A* 50 (1974) 333
- SOLOV, S. V., KAGAN, E. G., IVANOVA, T. L.: Heat-resistant elastomers. *Zh. Vses. Khim. Obshch. Mendeleeva* 19 (1974) 650 (In Russian)
- SOMMER, F. (Univ. Stuttgart, Inst. Metallkunde, Stuttgart, GFR): Berechnung der Mischungsenthalpie flüssiger binärer Legierungen der Metalle Aluminium, Gal-

- lium, Indium und Thallium mit Hilfe eines Modellpotentials. *Z. Metallk.* 65 (1974) 788
- SOURON, C., BOULET, R., ESPITALIÉ, J. (Inst. Français Petr., 27 Rue Ginoux, 75737 Paris 15, France): Étude par spectrométrie de masse de la décomposition thermique sous vide de kérogènes appartenant à deux lignées évolutives distinctes. *Rev. Inst. Fr. Petrol.* 29 (1974) 661 (In French)
- SPARASCI, A., TYRRELL, H. J. V. (c/o H. J. V. Tyrrell, Chelsea Coll., Dept. Chem., Manresa Rd., Chelsea, London SW3 6LX, England): Thermal diffusion and convective stability. Experimental study of the carbon tetrachloride + chlorobenzene system. *J. Chem. Soc. Faraday Trans. I.* 71 (1975) 42
- SRIVASTAVA, R. C., JAIN, A. K. (Birla Inst. Technol. and Sci., Chem. Dept., Pilani, India): Thermochemistry of oscillating reactions. *Indian J. Chem.* 12 (1974) 1280
- STEIN, H. J. (Sandia Labs., Albuquerque, N. M., 87115 USA): Bonding and thermal stability of implanted hydrogen in silicon. *J. Electron. Mater.* 4 (1975) 159
- STEPOVIK, L. P., KHAMYLOVA, I. A. (Lobachevskii State Univ., Gorki, USSR): Thermal decomposition of aluminium diethylalkoxy derivatives. *Zh. Obshch. Khim.* 45 (1975) 61 (In Russian)
- STERN, J. H., BEENINGA, L. R. (Calif. State Univ. Dept. Chem., Long Beach, Calif., 90840 USA): Partial molal heat capacities of caffeine and theophylline in pure water. *J. Phys. Chem.* 79 (1975) 582
- STRETZ, L. A., BAUTISTA, R. G. (Atom Energy Comm., Ames Lab., Ames, Ia., 50010 USA): The high temperature enthalpy of liquid lanthanum by levitation calorimetry. *J. Chem. Thermodyn.* 7 (1975) 83
- SYRKIN, V. G.: Thermodynamic analysis for preparation of metals of VI–VIII groups by thermal dissociation of carbonyls. *Zh. Fiz. Khim.* 48 (1974) 2927 (In Russian)
- SZYMAŃSKI, J. T. (Canada Dept. Energy Mines and Resources, Mines Branch, Mineral Sci. Div., Ottawa, Ont., Canada): The crystal structure of high-temperature CuFe_2S_3 . *Z. Kristallogr.* 140 (1974) 240
- SZYMCZAK, R., REICH, A., KADOMSEVA, A. M. (Polish Acad. Sci., Inst. Phys., Warsaw, Poland): Temperature variation of bubble domains in $\text{Dy}_{0.3}\text{Tm}_{0.7}\text{FeO}_3$ mixed orthoferrite. *Appl. Phys.* 6 (1975) 31
- TACHIN, V. S., ERMOLAEV, V. L., BODUNOV, E. N.: Temperature effect on structure of solvate shell of cations in liquid non-aqueous crystallohydrate solutions of rare earth salts. *Zh. Neorg. Khim.* 20 (1975) 341 (In Russian)
- TALMOR, Y., SIERRO, J. (Dept. Phys. Mat. Condensee, 32 Blvd. Yvoy, CH-1211 Geneva 4, Switzerland): Low-temperature resistivity of Yb in Au, Ag and Au-Ag alloys. *Phys. Rev. B* 11 (1975) 300
- TAKÉUCHI, Y., TAKAGI, J., YAMANAKA, T. (Univ. Tokyo, Fac. Sci., Mineral. Inst., Hongo, Tokyo, Japan): Structural characterization of the high-temperature phase V on $\text{PbS-Bi}_2\text{S}_3$ join. *Z. Kristallogr.* 140 (1974) 249
- TANAKA, R., D'ARCY, P. J., BENSON, G. C. (Natl. Res. Council Canada, Div. Chem., Ottawa K1A OR6, Ont., Canada): Application of a flow microcalorimeter to determine the excess enthalpies of binary mixtures of non-electrolytes. *Thermochim. Acta* 11 (1975) 163
- TANAKA, H., TAKAGI, N., OKAJIMA, S. (Kyushu Univ., Fac. Sci., Dept. Chem., Hakozaki, Fukuoka, Japan): Melting behavior of highly stretched isotactic polypropylene film. *J. Polym. Sci. Polym. Chem. Ed.* 12 (1974) 2721
- TAYLOR, R. (Univ. Sussex, Sch. Molec. Sci., Brighton BN1 9QJ, Sussex, England): The thermal decomposition of carbonates to ethers. *Tetrahedron Lett.* (1975) 593
- TELLO, M. J., BOCANEGRA, E. H., ARRAN-DIAGA, M. A. (Univ. Granada, Fac. Cien., Dto. Fis., Granada, Spain): On the thermal decomposition of $(\text{C}_n\text{H}_{2n+1}\text{NH}_2)_2\text{MnCl}_4$ compounds with $n \leq 10$ in a dynamic temperature regime. *Thermochim. Acta* 11 (1975) 96
- THINH, T. P., RAMALHO, R. S., KALIAGUINE, S. C. (Laval Univ., Dept. Chem. Engn., Quebec City G1K 7P4, Quebec, Canada): Enthalpies of mixtures of polar and non-polar component: system n-pentanol–n-heptane. *J. Chem. Eng. Data* 20 (1975) 61
- THORNBURG, D. D., JOHNSON, R. I. (Xerox Corp., Res. Ctr., Palo Alto, Calif., 94304 USA): Thermal analysis of bulk amorph-

- ous arsenic triselenide. *J. Non-Cryst. Solids* 17 (1975) 2
- TOLPADI, S. (Indian Inst. Technol., Dept. Phys., Kharagpur, India): Volume and temperature variation of Grüneisen constant. *J. Phys. F* 4 (1974) 2138
- TOPOR, L. (Inst. Phys. Chem., Str. Galați 31, Bucharest 13, Romania): Thermodynamic data on vaporization of fused rubidium and cesium fluorides. *Rev. Roum. Chim.* 19 (1974) 1569
- TRAVKIN, N. N., GRIBOV, B. G., RUMYAN-TSEVA, V. P., TONYAN, I. G., ZORINA, E. N.: Thermography of organometallic compounds. 4. A thermal decomposition of gallium alkyl compounds. *Zh. Obshch. Khim.* 45 (1975) 316 (In Russian)
- TROITSKII, B. B., DOZOROV, V. A., MINCHUK, F. F., TROITSKAYA, L. S. (Acad. Sci. USSR, Chem. Inst., Gorkii, USSR): The simplest mathematical model of the process of the thermal dehydrochlorination of poly(vinyl chloride). *Europ. Polym. J.* 11 (1975) 277
- TSENTSIPER, A. B., DOBROLYUBOVA, M. S. (Kurnakov Gen. and Inorg. Chem. Inst., Moscow, USSR): Thermal decomposition of sodium peroxoborate. *Bull. Acad. Sci. USSR Div. Chem. Sci.* transl. *Izv. Akad. Nauk SSSR Ser. Khim.* 23 (1974) 1143
- TSUGE, O., YOGI, S. (Kyushu Univ., Res. Inst. Ind. Sci., Higashi 812, Fukuoka, Japan): Photochemical and thermal decomposition of 5 substituted 4,6-dihydro-3,7-diaryl-1,2,5-triazepines. *Heterocycles* 3 (1975) 62
- TVAROŠKA, I., BLEHA, T., VALKO, L. (Slovak Acad. Sci., Inst. Chem., 80933 Bratislava, Czechoslovakia): On thermal dehydrochlorination of model compounds for PVC. IV. MO Study of the catalytic effect of hydrogen chloride. *Polym. J.* 7 (1975) 34
- UCHIDA, Y., TSUKIOKA, M., KOJIMA, H. (Natl. Inst. Res. Inorg. Mat., Niihari, Ibaraki, Japan): Temperature dependence of fine structure of Mn^{2+} ions in $SrMoO_4$. *J. Phys. Soc. Jap.* 37 (1974) 1709
- UHER, M., HARANGOZÓ, M., TÖLGYESSY, J., KOŠIK, M., JESENÁK, V. (Slovak Tech. Univ., Fac. Chem. Technol., Bratislava, Czechoslovakia): Radioactive kryptonates of organo-sulphur compounds. VII. Thermal and dekrptonation analysis of 2-naphthylisothiocyanate. *Radiochem. Radioanal. Lett.* 20 (1975) 221
- ULLMAN, A. Z., MADIX, R. J. (Univ. Calif., Dept. Energy and Kinetics, Los Angeles, Calif., 90024 USA): MBRS studies of the high temperature oxidation of polycrystalline molybdenum: surface diffusion of reaction intermediates. *High Temp. Sci.* 6 (1974) 342
- UMYAROVA, R. S., URUSOV, V. S., VOROBYEV, A. F. (V. I. Vernadskii Geochem. and Anal. Chem. Inst., Moscow, USSR): Thermochemical investigation of solid solutions in the system $LiCl-MnCl_2$. *Geokhimiya* (1975) 44 (In Russian)
- URZHENKO, A. M., USHEROV-MARSHAK, A. V.: Hydration kinetics of $3 CaO \cdot SiO_2$ between 20 and 80 °C. *Inorg. Mater.* transl. *Izv. Akad. Nauk SSSR Neorg. Mater.* 10 (1974) 761
- VALYASHKO, V. M. (N. S. Kurnakov Gen. and Inorg. Chem. Inst., Moscow, USSR): Peculiarities of composition change of solutions in heterogenous aqueous-salt equilibria at high temperatures. *Zh. Neorg. Khim.* 20 (1975) 471 (In Russian)
- VAN DAM, J. C., HAKVOORT, G., JANSEN, J. C., REEDIJK, J. (c/o J. Reedijk, Delft Univ. Technol., Dept. Chem., Delft, Netherlands): Thermochemistry of nickel-(II)imidazole complexes. *J. Inorg. Nucl. Chem.* 37 (1975) 713
- VANDAMME, R., FRANÇOIS, A., CACHET, C. (UER Domaine Mediterranean, Lab. Chim. Phys. Org., Parc Valrose, 06034 Nice, France): Modification des limites de flammes froides par addition d'inerte pour les mélanges pauvres en O_2 . *Bull. Soc. Chim. Fr. I.* (1974) 2667
- VANDERWIELEN, A. J., RING, M. A., O'NEAL, H. E. (c/o M. A. Ring, San Diego State Univ., Dept. Chem., San Diego, Calif., 92115 USA): Kinetics of the thermal decomposition of methylsilane and trisilane. *J. Amer. Chem. Soc.* 97 (1975) 993
- VAN HOUT, M. J. G., VERPLANKE, J. C., ROBERTSON, J. M. (Philips Res. Labs., Eindhoven, Netherlands): Hydrothermal synthesis of single crystal thin films of magnetic garnets and their analysis. *Mater. Res. Bull.* 10 (1975) 125

- VASIL'EV, N. G., OVCHARENKO, F. D., MANK, V. V., OVRAMENKO, N. A. (Acad. Sci. UkSSR, Colloidal Chem. and Water Chem. Inst., Kiev, UkSSR): Thermal stability of the acidic forms of montmorillonite. *Kinet. Catal.* transl. *Kinet. Kat.* 15 (1974) 686
- VASILEV, V. A., FEDYAINOV, N. V., KORBU TOVA, Z. V., FEDOTOVA, T. F., FURMANOV, A. S. (D. I. Mendeleev Chem. Technol. Inst., Novomoskovsk, USSR): Specific heat of cuprammonium acetate-carbonate solutions at 25°. *J. Appl. Chem. USSR* transl. *Zh. Prikl. Khim.* 47 (1974) 1556
- VASILEV, V. P., VOROBEV, P. N., LYTKIN, A. I.: Enthalpy of $ZrCl_4$ dissolution in perchloric, hydrochloric and nitric acids. *Zh. Neorg. Khim.* 20 (1975) 373 (In Russian)
- VASIL'EVA, E. V., TERENT'EVA, V. S. (A. A. Baikov Met. Inst., Moscow, USSR): Structure, phase composition and heat resistance of alloys of the system Si-Ti-Mo. *Inorg. Mater.* transl. *Izv. Akad. Nauk SSSR Neorg. Mater.* 10 (1974) 879
- VASINI, E., SCHUMACHER, H. J. (Univ. Nacl. La Plata, Fac. Cien. Exactas, Inst. Invest. Fisicoquim. Teóricas y Aplicadas, Calle 47 esq. 115, La Plata, Argentina): Die Kinetik der thermischen Reaktion zwischen F_2SO_3 und CO . *Z. Phys. Chem. Frankfurt* 94 (1975) 39
- VASSILEV, T. A., TERZIISKI, T. A., MINDEVA, D. B., POPOV, I. I., VRANCHEV, D. P. (Plovdiv Univ., Phys. Dept., Plovdiv, Bulgaria): Dilatometric and thermodepolarization analysis of relaxation processes in poly(methyl metacrylate). *Dokl. Bolg. Akad. Nauk* 27 (1974) 1331
- VEDAM, K., KIRK, J. L., ACHAR, B. N. N. (Penn. State Univ., Mat. Res. Lab., University Pk., Pa., 16802 USA): Piezo and thermo-optic behavior of spinel ($MgAl_2O_4$). *J. Solid State Chem.* 12 (1975) 213
- VEDERNIKOV, M. V., KIZAEV, S. A., PETROV, A. V., MOREVA, N. I. (A. F. Ioffe Physicotech. Inst., Leningrad, USSR): Magnetic susceptibility and thermoconductivity of metallic samarium at high pressure. *Fiz. Tverd. Tela* 17 (1975) 340 (In Russian)
- VESALA, A. (Univ. Turku, Dept. Chem., SF-20500 Turku 50, Finland): Thermodynamics of transfer of nonelectrolytes from light to heavy water. I. Linear free energy correlations of free energy of transfer with solubility and heat of melting of a nonelectrolyte. *Acta Chem. Scand. A* 28 (1974) 839
- VLČEK, J., MACHÁŇ, V., RUSEK, V., KOKTA, L., ROHAČEK, J., SMEJKAL, Z., VITKOVÁ, J. (Reg. Hyg. Ctr., Hradec Kralove, Czechoslovakia): Thermal separation of ^{99m}Tc from molybdenum trioxide. II. Separation of ^{99m}Tc from molybdenum trioxide at temperatures above 650°C. *Radiochem. Radioanal. Lett.* 20 (1974) 23
- VOROBEV, KH. S., KROICHUK, L. A., LUKASHEVICH, A. A. (All Union Struct. Mat. Res. Inst., Moscow, USSR): Use of differential thermal analysis for investigation of prolonged hydration of high-magnesia cement. *J. Appl. Chem. USSR* transl. *Zh. Prikl. Khim.* 47 (1974) 1744
- VORONIN, G. F., GERASIMOV, Y. I. MUKHAMEDZHANOVA, N. M. (M. V. Lomonosov State Univ., Moscow, USSR): Heats and entropies of formation of rubidium compounds with bismuth. *Zh. Fiz. Khim.* 48 (1974) 2941 (In Russian)
- VOSHCHININ, A. A., KERZHENTSEV, V. V., STUDNIKOV, E. L. (S. Ordzhonikidze Aviat. Inst., Moscow, USSR): Device for experiments on heat conductivity of alkali metal vapors. *Zavod. Lab.* 41 (1975) 47 (In Russian)
- WARSHAWSKY, I. (NASA Lewis Res. Ctr., Cleveland, Ohio, 44135 USA): Heat conduction errors and time lag in cryogenic thermometer installations. *Instr. Soc. Amer. ISA Trans.* 13 (1974) 335
- WESTEREN, H. W. (C. I. Hayes Inc., Cranston, R. I., 02910 USA): Vacuum heat treatment today. *J. Vac. Sci. Technol.* 11 (1974) 1105
- WHITE, T. J., DAVIS, J. H., WALTER, H. U. (Univ. Alabama, Huntsville, Ala., 35807 USA): Thermal expansion and Grüneisen parameters of InBi. *J. Appl. Phys.* 46 (1975) 11
- WIDMANN, G. (Mettler Instr. A. G., Greifensee, Switzerland): Quantitative isothermal DTA-studies. *Thermochim. Acta* 11 (1975) 331
- WIEDEMEIER, H., SIEMERS, P. A. (Rensselaer Polytech. Inst., Dept. Chem., Troy, N. Y., 12181 USA): The thermal expansion and

- high temperature transformation of GeSe. *Z. Anorg. Allg. Chem.* 411 (1975) 90
- WILLMANN, G., ENDL, H. (Tech. Univ. Berlin, Inst. Nichtmet. Werkstoffe, Englische Str. 20, D-1000 Berlin 12): Der Einfluss des Messkopfes einer DTA-Apparatur auf die quantitative Bestimmung von Wärmetönungen. *Fresenius Z. Anal. Chem.* 273 (1975) 11
- WINELAND, D. J., DEHMELT, H. G. (Univ. Washington, Dept. Phys., Seattle, Wash., 98195 USA): Principles of the stored ion calorimeter. *J. Appl. Phys.* 46 (1975) 919
- WÓYCICKI, W. (Polish Acad. Sci., Inst. Phys. Chem., Warsaw, Poland): Excess enthalpies of binary mixtures containing unsaturated aliphatic hydrocarbons. 1. n-alkene + n-alkane. *J. Chem. Thermodyn.* 7 (1975) 77
- WUN, M., PHILLIPS, E. (Univ. Calif., Lawrence Berkeley Lab., Inorg. Mat. Res. Div., Berkeley, Calif., 94720 USA): Low temperature specific heat of apiezon N grease. *Cryogenics* 15 (1975) 36
- YANAKI, A. A., OBOLONCHIK, V. A.: Thermal stability of tellurides of transition metals of groups V and VI of the periodic system. *J. Appl. Chem. USSR transl. Zh. Prikl. Khim.* 47 (1974) 1499
- YOURTEE, D. M., BROWN, H. D., CHATTOPADHYAY, S. K., PHILLIPS, D., EVANS, W. J. (Canc. Res. Ctr., Biochem. Sect., Columbia, Mo., 65201 USA): Microcalorimetry applied to clinical enzyme measurement. *Anal. Lett.* 8 (1975) 41
- ZELENITSKII, A. N., SEL'SKAYA, O. G., DULOV, A. A., LIOGON'KII, B. I., BERLIN, A. A. (Acad. Sci. USSR, Chem. Phys. Inst., Moscow, USSR): Structural changes in polyindigoides due to thermal and thermal-oxidative processes. *Vysokomol. Soedin. A* 16 (1974) 2730 (In Russian)
- ZELENTSOV, V. I., CHERTOV, V. M. (Acad. Sci. MoSSR, Appl. Phys. Inst., Kishinev, MoSSR): Hydrothermal modification of iron hydroxide. *Colloid J. USSR transl. Koll. Zh.* 36 (1974) 718
- ZHARIKOV, V. A., IVANOV, I. P., LITVIN, Iu. A., ISHBULATOV, R. A. (Acad. Sci. USSR, Exptl. Mineral. Inst., Chernogolovka, USSR): Experimental investigation of melting of alkali earth series volcanic rocks under pressure of 45 kbar. *Dokl. Akad. Nauk SSSR* 220 (1975) 936 (In Russian)
- ZHIMSKI, V. M., KAVUN, S. M., TARASOVA, Z. N. (Łódź Polytechn. Inst., Łódź, Poland): Study of the thermal-oxidative degradation of cis-isoprene rubber vulcanizates of different structure by means of nitrogen oxide radicals. *Vysokomol. Soedin. A* 17 (1975) 329 (In Russian)
- ZORIN, A. D., FROLOV, I. A., ZABURDYAEV, V. S., NOSYREV, S. A.: Preparation of specially pure antimony by thermal decomposition of stibine. *J. Appl. Chem. USSR transl. Zh. Prikl. Khim.* 47 (1974) 1233
- ZVARA, I., KELLER, O. L., SILVA, R. J., TARRANT, J. R. (Joint Inst. Nucl. Res., Dubna, USSR): Thermochromatography of bromides. A proposed technique for the study of transactinide element chemistry. *J. Chromatogr.* 103 (1975) 77
- ŻYSZKOWSKI, W. (Inst. Nucl. Res., Swierk, Poland): Thermal interaction of molten copper with water. *Int. J. Heat Mass Transfer.* 18 (1975) 271