

Contents

(Abstracted/Indexed in: *Curr. Contents: Phys., Chem. Earth Sci.; Eng., Technol. Appl. Sci., Chem. Abstr., PASCAL/CNRS@*)

REGULAR PAPERS

Thermodynamics and Calorimetry

- The phase transition behaviour of linear polyethylenes at high pressure
G.W.H. Höhne, J.E.K. Schawe (Ulm, Germany) and A.I. Shulgin (Moscow, Russia) 1
- The standard molar enthalpy of formation of $ZrMo_2O_8$
S.R. Bharadwaj, M.S. Samant, R. Mishra, S.R. Dharwadkar, S.S. Sawant and R. Kalyanaraman (Mumbai, India) 11
- Thermodynamics of dipeptides in water. V. calorimetric determination of enthalpy change values related to proton transfer processes of a series of dipeptides in water
F. Rodante (Roma, Italy), F. Fantauzzi (L'Aquila, Italy) and G. Catalani (Roma, Italy) 15

Thermal Analysis

- Thermal analysis of Ag-As-Se chalcogenide glasses
N. Zotov, C. Wagner, F. Bellido, L.M. Rodriguez and R. Jimenez-Garay (Puerto Real, Spain) 23
- Thermal dehydration of cobalt selenate hydrates
V. Koleva and D. Stoilova (Sofia, Bulgaria) 31
- A comparative study of the influence of Na(K)SCN and Na(K)I on the thermal stability and the flow characteristics of polyoxyethylene
K. Gjurova, B. Bogdanov, C. Uzov, M. Zagortcheva and G. Gavrailova (Bourgas, Bulgaria) 37
- Orthorhombic low-temperature modifications of compounds Cs_3LnCl_6 ($Ln=Nd-Yb$)-preparation and thermodynamic stability
G. Reuter, J. Sebastian, M. Roffe and H.-J. Seifert (Kassel, Germany) 47
- Comparative study of the microbial activity in different soils by the microcalorimetric method
N. Barros, S. Feijóo and R. Balsa (Santiago de Compostela, Spain) 53
- Thermal shrinkage of various cation forms of zeolite A
A. Colantuono, S. Dal Vecchio, G. Mascolo and M. Pansini (Cassino, Italy) 59
- Fly ashes reactivity in relation to coal combustion under flue gas recycling conditions
L. Santoro, S. Vaccaro, A. Aldi and R. Cioffi (Napoli, Italy) 67
- A calorimetric study on a cylindrical type lithium secondary battery by using a twin-type heat conduction calorimeter
Y. Saito, K. Kanari, K. Takano and T. Masuda (Ibaraki, Japan) 75
- A procedure for the kinetic processing of multiple peaks in temperature programmed desorption
R. Spinicci (Firenze, Italy) 87
- Chemical aspects of the preparation of high T_c superconducting Tl-Ba-Ca-Cu-O films by deposition from aerosol
G. Plesch, F. Hanic and M. Jergel (Bratislava, Slovakia) 95
- Evaluation of alkali metal salts as deposit inhibitors for synthetic lubricants by differential scanning calorimetry (DSC)
Y. Junbin (Beijing, China) 105
- A method for simulating temperature programmed desorption peaks
R. Spinicci (Firenze, Italy) 111
- Thermal behaviour of low-quality zinc sulphide concentrate
B.S. Boyanov, R.I. Dimitrov (Plovdiv, Bulgaria) and Ž.D. Živković (Belgrade, Yugoslavia) 123
- Studies on the non-isothermal kinetics of thermal decomposition of the complex of europium *p*-methylbenzoate with 2,2'-dipyridine
P. Mu, R.F. Wang and L. Zhao (Shijiazhuang, China) 129

(Continued overleaf)