

## Subject index

### Activation energy

The effect of doping on the thermal decomposition of strontium bromate 207

### Alloy

Molecular alloys in the series of *para*-disubstituted benzene derivatives. Part 8. The *para*-dichlorobenzene + *para*-bromiodobenzene system 13

### Ammonium compound

The effect of simple anions on the formation of poly(tetraisopentylammonium acrylate) hydrates 97

### Anion

The effect of simple anions on the formation of poly(tetraisopentylammonium acrylate) hydrates 97

### Autoclaving

Use of DTA to determine the effect of mineralizers on the cement–quartz hydrothermal reactions. Part 2. Clay addition 189

### Benzene

Solubilities of organoboron compounds in organic solvents. Part 3. Solid–liquid equilibria of some 1,3-dicycloxy-1,3-diethyl-1,3-diboroxanes in heptane or benzene 19

### Binary system

Measurement of the eutectic composition and temperature of energetic materials. Part 1. The phase diagram of binary systems 65

### Bioassay

Microcalorimetry in the screening of discovery compounds and in the investigation of novel drug delivery systems 277

### Bioenergetics

Bioenergetics and bioremediation of contaminated soil 353

### Biomass

Pyrolysis of biomass with constant heating rate: influence of the operating conditions 109

### Bioremediation

Bioenergetics and bioremediation of contaminated soil 353

### Bird

Calorimetry in flying birds, using the wind tunnel technique 329

Calorimetric investigations on mound-building birds 319

### Buffer

Calorimetric investigations into enzymatic urea hydrolysis 1

### Caffeine

The phase transformation of caffeine: investigation by dynamic X-ray diffraction and emanation thermal analysis 29

### Calcium carbonate

Application of transpiration theory to TGA data: calcium carbonate and zinc chloride 41

### Calorimetry

A kinetics study of the reaction of dolomite with phosphoric acid using a calorimetric method 165

A thermochemical study of metabolic pathways in activated and triggered 2C11-12 mouse macrophage hybridoma cells 259

Calorimetric investigations into enzymatic urea hydrolysis 1

From whole body to molecule: an integrated approach to the regulation of metabolism and growth 305

Plant calorimetry. Part 2. Modeling the differences between apples and oranges 215

The advantages and disadvantages of direct and indirect calorimetry 337

### Carbon limitation

Calorimetry of dual limitations in yeast cultures 247

### Catabolic capacity

Catabolic capacity of *Saccharomyces cerevisiae* in relation to the physiological state and maintenance requirement 233

- Chelate**  
Stability trend of 1:1 and 2:1 azo malononitrile divalent chelates 173
- Climate**  
Plant calorimetry. Part 2. Modeling the differences between apples and oranges 215
- CSH**  
Use of DTA to determine the effect of mineralizers on the cement–quartz hydrothermal reactions. Part 2. Clay addition 189
- Decomposition**  
Specific heats and kinetic parameters of thermo-oxidative decomposition of peanut oil 197  
The effect of doping on the thermal decomposition of strontium bromate 207  
The preparation and thermal decomposition of some metal compounds of 4-dimethylaminobenzylidenepyruvate in the solid state 151  
The thermal dehydration of  $\text{Na}_2\text{WO}_4 \cdot 2\text{H}_2\text{O}$  85
- Dehydration**  
Flash dehydration of ulexite and investigation of dehydration kinetics from thermogravimetric data 125  
The thermal dehydration of  $\text{Na}_2\text{WO}_4 \cdot 2\text{H}_2\text{O}$  85
- Dendrimer**  
Microcalorimetry in the screening of discovery compounds and in the investigation of novel drug delivery systems 277
- Diazodinitrophenol**  
Thermal stability of diazodinitrophenol 137
- Direct calorimetry**  
The advantages and disadvantages of direct and indirect calorimetry 337
- Dissociation**  
Stability trend of 1:1 and 2:1 azo malononitrile divalent chelates 173
- Dolomite**  
A kinetics study of the reaction of dolomite with phosphoric acid using a calorimetric method 165
- Doping**  
The effect of doping on the thermal decomposition of strontium bromate 207
- Drug delivery**  
Microcalorimetry in the screening of discovery compounds and in the investigation of novel drug delivery systems 277
- DSC**  
Measurement of the eutectic composition and temperature of energetic materials. Part 1. The phase diagram of binary systems 65  
Measurement of the eutectic composition and temperature of energetic materials. Part 2. The HX-phase diagram of ternary systems 77  
Molecular alloys in the series of *para*-disubstituted benzene derivatives. Part 8. The *para*-dichlorobenzene + *para*-bromiodobenzene system 13  
Specific heats and kinetic parameters of thermo-oxidative decomposition of peanut oil 197  
The effect of simple anions on the formation of poly(tetraisopentylammonium acrylate) hydrates 97  
The preparation and thermal decomposition of some metal compounds of 4-dimethylaminobenzylidenepyruvate in the solid state 151  
Thermal stability of diazodinitrophenol 137
- DTA**  
Flash dehydration of ulexite and investigation of dehydration kinetics from thermogravimetric data 125  
Use of DTA to determine the effect of mineralizers on the cement–quartz hydrothermal reactions. Part 2. Clay addition 189
- DTG**  
The effect of doping on the thermal decomposition of strontium bromate 207  
The preparation and thermal decomposition of some metal compounds of 4-dimethylaminobenzylidenepyruvate in the solid state 151
- Dye**  
Stability trend of 1:1 and 2:1 azo malononitrile divalent chelates 173
- Ecosystem**  
Entropy production in living systems: from organisms to ecosystems 359
- Energetic material**  
Measurement of the eutectic composition and temperature of energetic materials. Part 1. The phase diagram of binary systems 65  
Measurement of the eutectic composition and temperature of energetic materials. Part 2. The HX-phase diagram of ternary systems 77
- Entropy**  
Entropy production in living systems: from organisms to ecosystems 359

**Enzyme**

Calorimetric investigations into enzymatic urea hydrolysis 1

**ETA**

The phase transformation of caffeine: investigation by dynamic X-ray diffraction and emanation thermal analysis 29

**Eutectic**

Measurement of the eutectic composition and temperature of energetic materials. Part 1. The phase diagram of binary systems 65

Measurement of the eutectic composition and temperature of energetic materials. Part 2. The HX-phase diagram of ternary systems 77

**Evaporation**

Calorimetry in flying birds, using the wind tunnel technique 329

**Growth**

From whole body to molecule: an integrated approach to the regulation of metabolism and growth 305

**Halide**

The effect of simple anions on the formation of poly(tetraiso-pentylammonium acrylate) hydrates 97

**Heptane**

Solubilities of organoboron compounds in organic solvents. Part 3. Solid–liquid equilibria of some 1,3-diacyloxy-1,3-diethyl-1,3-diboroxanes in heptane or benzene 19

**Homeothermy**

Calorimetric investigations on mound-building birds 319

**Human body**

Entropy production in living systems: from organisms to ecosystems 359

**Hydrate**

The effect of simple anions on the formation of poly(tetraiso-pentylammonium acrylate) hydrates 97

**Hydrogarnet**

Use of DTA to determine the effect of mineralizers on the cement–quartz hydrothermal reactions. Part 2. Clay addition 189

**Hydrolysis**

Calorimetric investigations into enzymatic urea hydrolysis 1

**IDSC**

Thermal stability of diazodinitrophenol 137

**Incubation**

Calorimetric investigations on mound-building birds 319

**Indirect calorimetry**

The advantages and disadvantages of direct and indirect calorimetry 337

**Kaolinite**

Use of DTA to determine the effect of mineralizers on the cement–quartz hydrothermal reactions. Part 2. Clay addition 189

**Kinetics**

A kinetics study of the reaction of dolomite with phosphoric acid using a calorimetric method 165

Flash dehydration of ulexite and investigation of dehydration kinetics from thermogravimetric data 125

Specific heats and kinetic parameters of thermo-oxidative decomposition of peanut oil 197

The thermal dehydration of  $\text{Na}_2\text{WO}_4 \cdot 2\text{H}_2\text{O}$  85

Thermal stability of diazodinitrophenol 137

**Lactate**

A thermochemical study of metabolic pathways in activated and triggered 2C11-12 mouse macrophage hybridoma cells 259

**Living system**

Entropy production in living systems: from organisms to ecosystems 359

Microcalorimetric techniques for the investigation of living plant materials 285

**Macrophage hybridoma**

A thermochemical study of metabolic pathways in activated and triggered 2C11-12 mouse macrophage hybridoma cells 259

**Megapode**

Calorimetric investigations on mound-building birds 319

**Metabolic pathway**

A thermochemical study of metabolic pathways in activated and triggered 2C11-12 mouse macrophage hybridoma cells 259

**Metabolism**

Calorimetry of dual limitations in yeast cultures 247

From whole body to molecule: an integrated approach to the regulation of metabolism and growth 305

- Metakaolinite**  
Use of DTA to determine the effect of mineralizers on the cement–quartz hydrothermal reactions. Part 2. Clay addition 189
- Microbe**  
Bioenergetics and bioremediation of contaminated soil 353
- Microcalorimetry**  
Microcalorimetric techniques for the investigation of living plant materials 285  
Microcalorimetry in the screening of discovery compounds and in the investigation of novel drug delivery systems 277
- Model**  
Plant calorimetry. Part 2. Modeling the differences between apples and oranges 215  
Solubilities of organoboron compounds in organic solvents. Part 3. Solid–liquid equilibria of some 1,3-diacyloxy-1,3-diethyl-1,3-diboroxanes in heptane or benzene 19
- Nitrogen limitation**  
Calorimetry of dual limitations in yeast cultures 247
- Oil**  
Oxidative stabilities of engine oils contaminated by vegetable oil 55  
Specific heats and kinetic parameters of thermo-oxidative decomposition of peanut oil 197
- Organoboron compound**  
Solubilities of organoboron compounds in organic solvents. Part 3. Solid–liquid equilibria of some 1,3-diacyloxy-1,3-diethyl-1,3-diboroxanes in heptane or benzene 19
- Oxidation**  
Oxidative stabilities of engine oils contaminated by vegetable oil 55
- Oxidative stability**  
Oxidative stabilities of engine oils contaminated by vegetable oil 55
- PDSC**  
Oxidative stabilities of engine oils contaminated by vegetable oil 55
- Peanut oil**  
Specific heats and kinetic parameters of thermo-oxidative decomposition of peanut oil 197
- pH**  
Calorimetric investigations into enzymatic urea hydrolysis 1  
Stability trend of 1:1 and 2:1 azo malononitrile divalent chelates 173
- Phase transformation**  
The phase transformation of caffeine: investigation by dynamic X-ray diffraction and emanation thermal analysis 29
- Phosphoric acid**  
A kinetics study of the reaction of dolomite with phosphoric acid using a calorimetric method 165
- Photocalorimetry**  
Microcalorimetric techniques for the investigation of living plant materials 285
- Pigeon**  
Calorimetry in flying birds, using the wind tunnel technique 329
- Plant**  
Microcalorimetric techniques for the investigation of living plant materials 285  
Plant calorimetry. Part 2. Modeling the differences between apples and oranges 215
- Pyrolysis**  
Pyrolysis of biomass with constant heating rate: influence of the operating conditions 109
- Rapeseed oil**  
Oxidative stabilities of engine oils contaminated by vegetable oil 55
- Respiration**  
Plant calorimetry. Part 2. Modeling the differences between apples and oranges 215
- Respiratory burst**  
A thermochemical study of metabolic pathways in activated and triggered 2C11-12 mouse macrophage hybridoma cells 259
- Respiratory quotient**  
Calorimetry in flying birds, using the wind tunnel technique 329
- Rhizosphere**  
Bioenergetics and bioremediation of contaminated soil 353
- Saccharomyces**  
Catabolic capacity of *Saccharomyces cerevisiae* in relation to the physiological state and maintenance requirement 233
- SEM**  
The phase transformation of caffeine: investigation by dynamic X-ray diffraction and emanation thermal analysis 29
- SLE**  
Molecular alloys in the series of *para*-disubstituted benzene derivatives. Part 8. The *para*-dichlorobenzene + *para*-bromiodobenzene system 13

- Solubilities of organoboron compounds in organic solvents. Part 3. Solid–liquid equilibria of some 1,3-diacyloxy-1,3-diethyl-1,3-diboroxanes in heptane or benzene 19
- Sodium tungstate  
The thermal dehydration of  $\text{Na}_2\text{WO}_4 \cdot 2\text{H}_2\text{O}$  85
- Solubility  
Solubilities of organoboron compounds in organic solvents. Part 3. Solid–liquid equilibria of some 1,3-diacyloxy-1,3-diethyl-1,3-diboroxanes in heptane or benzene 19
- Specific heat  
Specific heats and kinetic parameters of thermo-oxidative decomposition of peanut oil 197
- Stability  
Oxidative stabilities of engine oils contaminated by vegetable oil 55  
Stability trend of 1:1 and 2:1 azo malononitrile divalent chelates 173  
The preparation and thermal decomposition of some metal compounds of 4-dimethylaminobenzylidenepyruvate in the solid state 151  
Thermal stability of diazodinitrophenol 137
- Stability constant  
Stability trend of 1:1 and 2:1 azo malononitrile divalent chelates 173
- Strontium bromate  
The effect of doping on the thermal decomposition of strontium bromate 207
- Surface  
The thermal dehydration of  $\text{Na}_2\text{WO}_4 \cdot 2\text{H}_2\text{O}$  85
- Temperature  
Plant calorimetry. Part 2. Modeling the differences between apples and oranges 215
- Ternary system  
Measurement of the eutectic composition and temperature of energetic materials. Part 2. The HX-phase diagram of ternary systems 77
- TG  
The preparation and thermal decomposition of some metal compounds of 4-dimethylaminobenzylidenepyruvate in the solid state 151
- TGA  
Application of transpiration theory to TGA data: calcium carbonate and zinc chloride 41  
Flash dehydration of ulexite and investigation of dehydration kinetics from thermogravimetric data 125
- Pyrolysis of biomass with constant heating rate: influence of the operating conditions 109
- Thermodynamics  
Molecular alloys in the series of *para*-disubstituted benzene derivatives. Part 8. The *para*-dichlorobenzene + *para*-bromiodobenzene system 13  
Stability trend of 1:1 and 2:1 azo malononitrile divalent chelates 173
- Transpiration  
Application of transpiration theory to TGA data: calcium carbonate and zinc chloride 41
- TXRD  
The phase transformation of caffeine: investigation by dynamic X-ray diffraction and emanation thermal analysis 29
- Ulexite  
Flash dehydration of ulexite and investigation of dehydration kinetics from thermogravimetric data 125
- Urea  
Calorimetric investigations into enzymatic urea hydrolysis 1
- Vegetation  
Bioenergetics and bioremediation of contaminated soil 353
- VITG  
Thermal stability of diazodinitrophenol 137
- Whole-body calorimetry  
From whole body to molecule: an integrated approach to the regulation of metabolism and growth 305
- Wind tunnel  
Calorimetry in flying birds, using the wind tunnel technique 329
- XRD  
The preparation and thermal decomposition of some metal compounds of 4-dimethylaminobenzylidenepyruvate in the solid state 151  
Use of DTA to determine the effect of mineralizers on the cement–quartz hydrothermal reactions. Part 2. Clay addition 189
- Yeast  
Calorimetry of dual limitations in yeast cultures 247
- Zinc chloride  
Application of transpiration theory to TGA data: calcium carbonate and zinc chloride 41