

Subject index

Ac Calorimetry

- Heat capacity study of La_2NiO_4 and Pr_2NiO_4 537
- Phase transitions and crystal-field levels in Nd_2NiO_4 523

Accelerator

- Influence of the accelerator concentration on the curing reaction of an epoxy–anhydride system 213

Acid sites

- Applications of new high resolution evolved-gas analysis systems for the characterisation of catalysts using rate-controlled thermal analysis 665

Adiabatic calorimetry

- Heat capacity study of La_2NiO_4 and Pr_2NiO_4 537
- Phase transitions and crystal-field levels in Nd_2NiO_4 523

Adiabatic scanning calorimetry

- High-resolution adiabatic scanning calorimeter for small samples 27

Adsorption isotherms

- Adsorption of water on ZSM-5 zeolites 599

Adsorption of water

- Adsorption of water on ZSM-5 zeolites 599

Adsorption energy distribution functions

- Adsorption of water on ZSM-5 zeolites 599

Ageing of samples

- Thermal investigation of the role of outer surfaces in the decomposition of crystalline solids 79

Alkaline cuprates

- Structural and thermal properties of the alkaline cuprate KCuO_2 591

Alloy

- Oxidation phenomena in a Ti_3Al base-alloy 133

Ammine complex

- Solid state reactions of chromium(III)-substituted heteropoly tungstates with chromium(III) ammine cations 465

Ammonium nitrate

- Thermal analysis using X-ray diffractometry for the investigation of the solid state reaction of ammonium nitrate and copper oxide 475

Amorphized and amorphous borates

- Glass transition effect of amorphous borates 457

Anhydride + epoxy resin

- Influence of the accelerator concentration on the curing reaction of an epoxy–anhydride system 213

Aqueous solutions

- Effect of water as cosolvent in the organic phase on the partitioning of nonelectrolytes between aqueous solution and octan-1-ol 361

Architecture preservation

- The scientific support of a preservation work: the frescoes in the aosta cathedral upper nave, from the diagnostic research to the completed restoration 769

Arrhenius parameters

- Detecting isokinetic relationships in non-isothermal systems by the isoconversional method 61

Avrami

- On the physical dimensions of the Avrami constant 185

$\text{Ba}_2\text{CuO}_{3+y}$

- Thermal analysis of mercury superconductor $\text{HgBa}_2\text{CuO}_{4+x}$ and its precursor $\text{Ba}_2\text{CuO}_{3+y}$ 101

$\text{BaCuO}_2\text{--CuO--O}_2$

- Solid solution in the system $\text{BaCuO}_2\text{--CuO--O}_2$ 567

Benzophenone

- Organic solid–solid reactions: exploration of the synthetic potential 433

$\text{Bi}_2\text{O}_3\text{--PbO--CaO}$ system

- Thermoanalytical study of compound formation in the $\text{Bi}_2\text{O}_3\text{--PbO--CaO}$ system 553

Binary eutectic

- Prediction of the quaternary eutectic 73

- Binary system**
A thermoanalytical study of some zinc-fuelled binary pyrotechnic systems 649
- Binding media**
Investigation of the binding media of paintings by thermoanalytical and spectroscopic techniques 705
- Biosorption**
Calorimetric studies on interactions of divalent cations and microorganisms or microbial envelopes 393
- Blast furnace slag**
Application of calorimetry in studies of the immobilization of heavy metals in cementitious materials 613
- Blend**
Thermal analysis of blends made with polyamide 6 and γ -irradiated polyethylenes 261
- Borate-like glasses**
Glass transition effect of amorphous borates 457
- Bronze restoration**
Multidisciplinary scientific analysis on restoration of a renaissance masterpiece: Verrocchio's "L'Incredulita di san tommaso", outdoor bronze group of Orsammichele Church in Florence. A case history 729
- Building restoration**
Thermoanalytical research on traditional mortars in Venice 817
- Bulk modulus**
Common intersection point independent of temperature for compressed liquid mixtures 371
- Calcimetry**
Thermoanalytical research on traditional mortars in Venice 817
- Calorimetry**
Effect of water as cosolvent in the organic phase on the partitioning of nonelectrolytes between aqueous solution and octan-1-ol 361
- CaO transformation**
Thermal analysis as a method of characterizing ancient ceramic technologies 743
- Catalysis**
Gaining insight into structural changes with dynamic diffraction methods 33
- Catalyst**
Thermal decomposition of phase-stabilised ammonium nitrate (PSAN), hydroxyl-terminated polybutadiene (HTPB) based propellants. The effect of iron(III) oxide burning-rate catalyst 273
- Applications of new high resolution evolved-gas analysis systems for the characterisation of catalysts using rate-controlled thermal analysis 665
- Cation non-stoichiometry**
Solid solution in the system $\text{BaCuO}_2\text{-CuO-O}_2$ 567
- Cell characterization**
Microcalorimetric techniques for characterization of living cellular systems. Will there be any important practical applications? 337
- Cement hydration**
Application of calorimetry in studies of the immobilization of heavy metals in cementitious materials 613
- Cementitious materials**
Application of calorimetry in studies of the immobilization of heavy metals in cementitious materials 613
- Cementitious mortars**
Characterization of ancient, byzantine and later historic mortars by thermal and X-ray diffraction techniques 779
- Ceramic micro-fabric**
Thermal analysis as a method of characterizing ancient ceramic technologies 743
- Ceramic technology**
Thermal analysis as a method of characterizing ancient ceramic technologies 743
- Chalcogenides (I-III-VI₂ compounds)**
Anomalous lattice specific heat of LiInSe_2 at low temperatures 575
- Chromium**
Solid state reactions of chromium(III)-substituted heteropoly tungstates with chromium(III) ammine cations 465
- Clophill clay**
Applications of new high resolution evolved-gas analysis systems for the characterisation of catalysts using rate-controlled thermal analysis 665
- Co fine powders**
Microstructural characterisation of Ni, Co and Ni-Co fine powders for physical sensors 117
- Co-crystallization**
Solid state co-crystallization of sugar alcohols measured with differential scanning calorimetry 351
- Coal**
Regenerable sulfur sorbents in coal combustion. Thermodynamics and testing by TG 697
- Constants**
On the physical dimensions of the Avrami constant 185

- Coordination polymer
Studies regarding the thermal stability of some coordination polymers. Polydiphenylphosphinates and polydialkylphosphinates of Cr(III), Fe(III), Mn(II), Co(II), Ni(II) and UO_2^{2+} 295
- Copper oxide
Thermal analysis using X-ray diffractometry for the investigation of the solid state reaction of ammonium nitrate and copper oxide 475
- Cosolvents
Effect of water as cosolvent in the organic phase on the partitioning of nonelectrolytes between aqueous solution and octan-1-ol 361
- Crushed brick mortars
Characterization of ancient, byzantine and later historic mortars by thermal and X-ray diffraction techniques 779
- Crystal
Crystal chemistry and molecular mechanisms in molten magmas: the significance of fusion in reactions of solids 621
- Crystal-field levels
Phase transitions and crystal-field levels in Nd_2NiO_4 523
- Crystalline solids
Thermal investigation of the role of outer surfaces in the decomposition of crystalline solids 79
- Crystallization
On the physical dimensions of the Avrami constant 185
Polymer crystallization: fold surface free energy determination by different thermal analysis techniques 191
Zeolitization of glasses: a calorimetric study 443
- Curing
Influence of the accelerator concentration on the curing reaction of an epoxy-anhydride system 213
- Cyclohexane diols
A calorimetric study of phase transitions for some cyclohexanediols 405
- D-Mannitol
Solid state co-crystallization of sugar alcohols measured with differential scanning calorimetry 351
- D-Sorbitol
Solid state co-crystallization of sugar alcohols measured with differential scanning calorimetry 351
- D-xylitol
Solid state co-crystallization of sugar alcohols measured with differential scanning calorimetry 351
- Decomposition
Thermal decomposition of phase-stabilised ammonium nitrate (PSAN), hydroxyl-terminated polybutadiene (HTPB) based propellants. The effect of iron(III) oxide burning-rate catalyst 273
- Degradation
Thermal degradation of a diglycidyl ether of bisphenol A/1,3-bisaminomethylcyclohexane (DGEBA/1,3-BAC) epoxy resin system 253
- Dehydration
The thermal dehydration of synthetic gypsum 631
- Denaturation enthalpy
The extra-stability of thermophilic globular proteins: a thermodynamic approach 381
- Dental composite
Thermal analysis of visible-light-activated dental composites 319
- Derivative
Isothermal kinetic analysis of solid-state reactions using plots of rate against derivative function of the rate equation 1
- Desorption curves
Adsorption of water on ZSM-5 zeolites 599
- Dialkylphosphinate
Studies regarding the thermal stability of some coordination polymers. Polydiphenylphosphinates and polydialkylphosphinates of Cr(III), Fe(III), Mn(II), Co(II), Ni(II) and UO_2^{2+} 295
- Differential scanning microcalorimetry
Gel-sol phase transition of poly(3-hydroxybutyrate) in dimethylformamide 307
- Dimethylformamide
Gel-sol phase transition of poly(3-hydroxybutyrate) in dimethylformamide 307
- Diphenylphosphinate
Studies regarding the thermal stability of some coordination polymers. Polydiphenylphosphinates and polydialkylphosphinates of Cr(III), Fe(III), Mn(II), Co(II), Ni(II) and UO_2^{2+} 295
- Direct temperature-resolved pyrolysis MS (DTMS)
The effect of relative humidity and pigment type on paint films 755
- Discriminant factors
Thermal analysis as a method of characterizing ancient ceramic technologies 743

Disorder

The effect of disorder on the thermodynamic parameters of silicate glasses 453

Dolomite

Applications of new high resolution evolved-gas analysis systems for the characterisation of catalysts using rate-controlled thermal analysis 665

Double calorimetry

High-resolution adiabatic scanning calorimeter for small samples 27

DSC

A calorimetric study of phase transitions for some cyclohexanediols 405

Accuracy and precision of heat capacity measurements using a heat flux differential scanning calorimeter 51

Calorimetric analysis of the polymerization reaction of a phenolic resin 201

Calorimetric and microscopic investigations of selected members from the thioester homologous series 415

Glass transition effect of amorphous borates 457

Influence of the accelerator concentration on the curing reaction of an epoxy-anhydride system 213

Investigation of the binding media of paintings by thermoanalytical and spectroscopic techniques 705

Polymer crystallization: fold surface free energy determination by different thermal analysis techniques 191

Solid state co-crystallization of sugar alcohols measured with differential scanning calorimetry 351

Some aspects of thermal effects and application properties of engineering plastics and rubber 159

Thermal analysis of visible-light-activated dental composites 319

Thermal analysis studies on the zirconium/nickel alloy-potassium perchlorate-nitrocellulose pyrotechnic system 687

Thermal analysis using X-ray diffractometry for the investigation of the solid state reaction of ammonium nitrate and copper oxide 475

Thermal investigation of the role of outer surfaces in the decomposition of crystalline solids 79

Thermomicroscopy studies on the zirconium-potassium perchlorate-nitrocellulose pyrotechnic system 639

DSC-TG

Solid solution in the system $\text{BaCuO}_2\text{-CuO-O}_2$ 567

DTA

A DTA instrument based on optical measurement of temperature 89

Solid solution in the system $\text{BaCuO}_2\text{-CuO-O}_2$ 567

Some observations on the use of strontium carbonate as a temperature standard for DTA 43

Structural and thermal properties of the alkaline cuprate KCuO_2 591

Thermal decomposition of phase-stabilised ammonium nitrate (PSAN), hydroxyl-terminated polybutadiene (HTPB) based propellants.

The effect of iron(III) oxide burning-rate catalyst 273

DTA-TG

Thermoanalytical study of compound formation in the $\text{Bi}_2\text{O}_3\text{-PbO-CaO}$ system 553

DTG

Thermal decomposition of phase-stabilised ammonium nitrate (PSAN), hydroxyl-terminated polybutadiene (HTPB) based propellants.

The effect of iron(III) oxide burning-rate catalyst 273

Electric insulators

Estimation of the thermal index of electric insulators by non-isothermal thermogravimetry 245

Electrical conductivity

Thermoanalytical study of synthesis of mixed lithium cobalt oxides 491

Electrical resistivity

Structural and thermal properties of the alkaline cuprate KCuO_2 591

EMF measurement

Solid solution in the system $\text{BaCuO}_2\text{-CuO-O}_2$ 567

Emissivity

A DTA instrument based on optical measurement of temperature 89

Endothermal glass transition effect

Glass transition effect of amorphous borates 457

Energy dispersive X-ray spectroscopy

Oxidation phenomena in a Ti_3Al base-alloy 133

Enthalpy of solution

Effect of water as cosolvent in the organic phase on the partitioning of nonelectrolytes between aqueous solution and octan-1-ol 361

Enthalpy of sublimation

A calorimetric study of phase transitions for some cyclohexanediols 405

- Enthalpy of vaporization
A calorimetric study of phase transitions for some cyclohexanediols 405
- Epoxy
Thermal degradation of a diglycidyl ether of bisphenol A/1,3-bisaminomethylcyclohexane (DGEBA/1,3-BAC) epoxy resin system 253
- Equation of state
Common intersection point independent of temperature for compressed liquid mixtures 371
- Excess molar volume
Common intersection point independent of temperature for compressed liquid mixtures 371
- Extent of vitrification
Thermal analysis as a method of characterizing ancient ceramic technologies 743
- Fibre optical microscopy
Characterization of the lumps in the mortars of historic masonry 809
- Firing temperature
Thermal analysis as a method of characterizing ancient ceramic technologies 743
- Flemish art
Multivariate characterization, using the SIMCA method, of mortars from two frescoes in Chiaravalle Abbey 797
- Fluidized bed combustion
Regenerable sulfur sorbents in coal combustion. Thermodynamics and testing by TG 697
- Forced-adiabatic conditions
Forced-adiabatic sampling environments: useful tools for the study of structure development during polymerization 145
- Fractal dimension
Fractal model of heat capacity for substances with diamond-like structures 109
- Frescoes
The scientific support of a preservation work: the frescoes in the aosta cathedral upper nave, from the diagnostic research to the completed restoration 769
- FT-IR
Forced-adiabatic sampling environments: useful tools for the study of structure development during polymerization 145
- FTIR
Adsorption of water on ZSM-5 zeolites 599
Characterization of the lumps in the mortars of historic masonry 809
Glass transition effect of amorphous borates 457
Investigation of the binding media of paintings by thermoanalytical and spectroscopic techniques 705
- Multidisciplinary scientific analysis on restoration of a renaissance masterpiece: Verrocchio's "L'Incredulita di san tommaso", outdoor bronze group of Orsammichele Church in Florence. A case history 729
Thermoanalytical research on traditional mortars in Venice 817
- Fusion
Crystal chemistry and molecular mechanisms in molten magmas: the significance of fusion in reactions of solids 621
- Gel-sol phase transition
Gel-sol phase transition of poly(3-hydroxybutyrate) in dimethylformamide 307
- Gibbs energy change
The extra-stability of thermophilic globular proteins: a thermodynamic approach 381
- Glass
The effect of disorder on the thermodynamic parameters of silicate glasses 453
Zeolitization of glasses: a calorimetric study 443
- Globular proteins
The extra-stability of thermophilic globular proteins: a thermodynamic approach 381
- Gothic art
Multivariate characterization, using the SIMCA method, of mortars from two frescoes in Chiaravalle Abbey 797
- Granulometric analysis
Thermoanalytical research on traditional mortars in Venice 817
- Gypsum mortars
Characterization of ancient, byzantine and later historic mortars by thermal and X-ray diffraction techniques 779
- Hazardous waste
Application of calorimetry in studies of the immobilization of heavy metals in cementitious materials 613
- Heat capacity accuracy
Accuracy and precision of heat capacity measurements using a heat flux differential scanning calorimeter 51
- Heat capacity precision
Accuracy and precision of heat capacity measurements using a heat flux differential scanning calorimeter 51
- Heat capacity
Fractal model of heat capacity for substances with diamond-like structures 109
Heat capacity study of La_2NiO_4 and Pr_2NiO_4 537

- Phase transitions and crystal-field levels in Nd_2NiO_4 523
- Heat flux calorimetry
Accuracy and precision of heat capacity measurements using a heat flux differential scanning calorimeter 51
- Heavy metal ion
Calorimetric studies on interactions of divalent cations and microorganisms or microbial envelopes 393
- Heavy metals
Application of calorimetry in studies of the immobilization of heavy metals in cementitious materials 613
- $\text{HgBa}_2\text{CuO}_{4+x}$
Thermal analysis of mercury superconductor $\text{HgBa}_2\text{CuO}_{4+x}$ and its precursor $\text{Ba}_2\text{CuO}_{3+y}$ 101
- High resolution calorimeter
High-resolution adiabatic scanning calorimeter for small samples 27
- High-temperature superconductor
Solid solution in the system $\text{BaCuO}_2\text{-CuO-O}_2$ 567
- Histochemical techniques
The scientific support of a preservation work: the frescoes in the aosta cathedral upper nave, from the diagnostic research to the completed restoration 769
- Historic masonry
Characterization of the lumps in the mortars of historic masonry 809
- Historic mortars
Characterization of ancient, byzantine and later historic mortars by thermal and X-ray diffraction techniques 779
- Hydraulicity
Characterization of ancient, byzantine and later historic mortars by thermal and X-ray diffraction techniques 779
- Immunochemical techniques
The scientific support of a preservation work: the frescoes in the aosta cathedral upper nave, from the diagnostic research to the completed restoration 769
- Intercalation compounds
Thermal behaviour of γ -titanium phosphate-phenanthroline intercalation compound exchanced with silver and other transition metal ions 507
- Ion chromatography
The scientific support of a preservation work: the frescoes in the aosta cathedral upper nave, from the diagnostic research to the completed restoration 769
- Ion exchange chromatography
Multidisciplinary scientific analysis on restoration of a renaissance masterpiece: Verrocchio's "L'Incredulita di san tommaso", outdoor bronze group of Orsammichele Church in Florence. A case history 729
- Ion-specific electrode
Thermal analysis studies on the zirconium/nickel alloy-potassium perchlorate-nitrocellulose pyrotechnic system 687
- IR spectroscopy
The scientific support of a preservation work: the frescoes in the aosta cathedral upper nave, from the diagnostic research to the completed restoration 769
- Irradiation
Thermal analysis of blends made with polyamide 6 and γ -irradiated polyethylenes 261
- Isoconversional method
Detecting isokinetic relationships in non-isothermal systems by the isoconversional method 61
- Isokinetic relationships
Detecting isokinetic relationships in non-isothermal systems by the isoconversional method 61
- Isothermal calorimetry
A calorimetric study of phase transitions for some cyclohexanediols 405
- Isothermal
Isothermal kinetic analysis of solid-state reactions using plots of rate against derivative function of the rate equation 1
On the physical dimensions of the Avrami constant 185
- IST
Microcalorimetric study applied to the comparison of compatibility tests (VST and IST) of polymers and propellants 231
- Kalve calorimeter
Zeolitization of glasses: a calorimetric study 443
- Keggin anion
Solid state reactions of chromium(III)-substituted heteropoly tungstates with chromium(III) ammine cations 465
- Kinetics
Calorimetric analysis of the polymerization reaction of a phenolic resin 201
Isothermal kinetic analysis of solid-state reactions using plots of rate against derivative function of the rate equation 1

- Thermal analysis using X-ray diffractometry for the investigation of the solid state reaction of ammonium nitrate and copper oxide 475
- L'Incredulita di San Tommaso
Multidisciplinary scientific analysis on restoration of a renaissance masterpiece: Verrocchio's "L'Incredulita di san tommaso", outdoor bronze group of Orsammichele Church in Florence. A case history 729
- La₂NiO₄
Heat capacity study of La₂NiO₄ and Pr₂NiO₄ 537
- Layered composite
Thermal behaviour of γ -titanium phosphate-phenanthroline intercalation compound exchanged with silver and other transition metal ions 507
- LiCoO₂
Thermoanalytical study of synthesis of mixed lithium cobalt oxides 491
- Lipid
Gaining insight into structural changes with dynamic diffraction methods 33
- Liquid crystal
Gaining insight into structural changes with dynamic diffraction methods 33
- Liquid mixtures
Common intersection point independent of temperature for compressed liquid mixtures 371
- Lithium oxide
Characterization by thermal methods of carbonate surface species on methane-coupling catalysts 677
- Living organisms
Microcalorimetric techniques for characterization of living cellular systems. Will there be any important practical applications? 337
- Low frequency dielectric spectroscopy
The effect of relative humidity and pigment type on paint films 755
- Low temperature heat capacity
Anomalous lattice specific heat of LiInSe₂ at low temperatures 575
- Low-temperature calorimetry
Fractal model of heat capacity for substances with diamond-like structures 109
- Low-temperature combustion
Regenerable sulfur sorbents in coal combustion. Thermodynamics and testing by TG 697
- Lumps in mortar
Characterization of the lumps in the mortars of historic masonry 809
- Magma
Crystal chemistry and molecular mechanisms in molten magmas: the significance of fusion in reactions of solids 621
- Magnetic behavior
Phase transitions and crystal-field levels in Nd₂NiO₄ 523
- Magnetic properties
Structural and thermal properties of the alkaline cuprate KCuO₂ 591
- Magnetism
Magnetic specific heat and susceptibility measurements on NdBa₂Cu_{3-x}Ga_xO_{7-y} at low temperatures 95
- Melt
Crystal chemistry and molecular mechanisms in molten magmas: the significance of fusion in reactions of solids 621
- Mercury superconductor
Thermal analysis of mercury superconductor HgBa₂CuO_{4+x} and its precursor Ba₂CuO_{3+y} 101
- Metabolism
Microcalorimetric techniques for characterization of living cellular systems. Will there be any important practical applications? 337
- Metallurgy
Multidisciplinary scientific analysis on restoration of a renaissance masterpiece: Verrocchio's "L'Incredulita di san tommaso", outdoor bronze group of Orsammichele Church in Florence. A case history 729
- Methane coupling
Characterization by thermal methods of carbonate surface species on methane-coupling catalysts 677
- Microanalysis
The scientific support of a preservation work: the frescoes in the aosta cathedral upper nave, from the diagnostic research to the completed restoration 769
- Microbial envelope
Calorimetric studies on interactions of divalent cations and microorganisms or microbial envelopes 393
- Microcalorimetry
Application of calorimetry in studies of the immobilization of heavy metals in cementitious materials 613

- Microcalorimetric study applied to the comparison of compatibility tests (VST and IST) of polymers and propellants 231
- Microcalorimetric techniques for characterization of living cellular systems. Will there be any important practical applications? 337
- Microorganism**
- Calorimetric studies on interactions of divalent cations and microorganisms or microbial envelopes 393
- Microscopy**
- Multidisciplinary scientific analysis on restoration of a renaissance masterpiece: Verrocchio's "L'Incredulita di san tommaso", outdoor bronze group of Orsammichele Church in Florence. A case history 729
- Polymer crystallization: fold surface free energy determination by different thermal analysis techniques 191
- The scientific support of a preservation work: the frescoes in the aosta cathedral upper nave, from the diagnostic research to the completed restoration 769
- Microstructure**
- Microstructural characterisation of Ni, Co and Ni-Co fine powders for physical sensors 117
- Model**
- On the physical dimensions of the Avrami constant 185
- Modern cement mortars**
- Characterization of ancient, byzantine and later historic mortars by thermal and X-ray diffraction techniques 779
- Moisture content**
- The effect of relative humidity and pigment type on paint films 755
- Montmorillonite clay**
- Applications of new high resolution evolved-gas analysis systems for the characterisation of catalysts using rate-controlled thermal analysis 665
- Mortar**
- Multivariate characterization, using the SIMCA method, of mortars from two frescoes in Chiaravalle Abbey 797
- Mortar joints**
- Characterization of the lumps in the mortars of historic masonry 809
- Mortar traditional**
- Thermoanalytical research on traditional mortars in Venice 817
- Multicomponent systems**
- Prediction of the quaternary eutectic 73
- Multifractal elasticity**
- Fractal model of heat capacity for substances with diamond-like structures 109
- Nd₂NiO₄**
- Phase transitions and crystal-field levels in Nd₂NiO₄ 523
- Neodymium**
- Magnetic specific heat and susceptibility measurements on NdBa₂Cu_{3-x}Ga_xO_{7-y} at low temperatures 95
- Neutron diffractometry**
- Gaining insight into structural changes with dynamic diffraction methods 33
- Ni fine powders**
- Microstructural characterisation of Ni, Co and Ni-Co fine powders for physical sensors 117
- Ni-Co fine powders**
- Microstructural characterisation of Ni, Co and Ni-Co fine powders for physical sensors 117
- Non-isothermal systems**
- Detecting isokinetic relationships in non-isothermal systems by the isoconversional method 61
- Non-isothermal TG**
- Estimation of the thermal index of electric insulators by non-isothermal thermogravimetry 245
- Nonelectrolytes**
- Effect of water as cosolvent in the organic phase on the partitioning of nonelectrolytes between aqueous solution and octan-1-ol 361
- Octan-1-ol**
- Effect of water as cosolvent in the organic phase on the partitioning of nonelectrolytes between aqueous solution and octan-1-ol 361
- Optical sensors**
- A DTA instrument based on optical measurement of temperature 89
- Optical microscopy**
- Thermoanalytical research on traditional mortars in Venice 817
- Organic solid state chemistry**
- Organic solid-solid reactions: exploration of the synthetic potential 433
- Outer surface**
- Thermal investigation of the role of outer surfaces in the decomposition of crystalline solids 79
- Oxidation kinetics**
- Oxidation phenomena in a Ti₃Al base-alloy 133
- Oxygen non-stoichiometry**
- Solid solution in the system BaCuO₂-CuO-O₂ 567

- Paint films
The effect of relative humidity and pigment type on paint films 755
- Painting conservation
Investigation of the binding media of paintings by thermoanalytical and spectroscopic techniques 705
- Patina
Multidisciplinary scientific analysis on restoration of a renaissance masterpiece: Verrocchio's "L'Incredulita di san tommaso", outdoor bronze group of Orsammichele Church in Florence. A case history 729
- PE
Thermal analysis of blends made with polyamide 6 and γ -irradiated polyethylenes 261
- Phase diagram
Prediction of the quaternary eutectic 73
Solid state co-crystallization of sugar alcohols measured with differential scanning calorimetry 351
- Phase stability
Oxidation phenomena in a Ti_3Al base-alloy 133
- Phase transition
Phase transitions and crystal-field levels in Nd_2NiO_4 523
- Phase transitions
A calorimetric study of phase transitions for some cyclohexanediols 405
- Pigments
The effect of relative humidity and pigment type on paint films 755
- Plaster
Multivariate characterization, using the SIMCA method, of mortars from two frescoes in Chiaravalle Abbey 797
- Plastic
Some aspects of thermal effects and application properties of engineering plastics and rubber 159
- Polyamide
Thermal analysis of blends made with polyamide 6 and γ -irradiated polyethylenes 261
- Poly(ethyleneterephthalate)
Detecting isokinetic relationships in non-isothermal systems by the isoconversional method 61
- Poly(β -hydroxybutyrate)
Gel-sol phase transition of poly(3-hydroxybutyrate) in dimethylformamide 307
- Polymer
Microcalorimetric study applied to the comparison of compatibility tests (VST and IST) of polymers and propellants 231
Polymer crystallization: fold surface free energy determination by different thermal analysis techniques 191
- Polymerization reaction
Calorimetric analysis of the polymerization reaction of a phenolic resin 201
- Polymorphism
Calorimetric and microscopic investigations of selected members from the thioester homologous series 415
- Portlandite mortars
Characterization of ancient, byzantine and later historic mortars by thermal and X-ray diffraction techniques 779
- Potassium oxycuprate ($KCuO_2$)
Structural and thermal properties of the alkaline cuprate $KCuO_2$ 591
- Pr_2NiO_4
Heat capacity study of La_2NiO_4 and Pr_2NiO_4 537
- Principal component analysis (PCA)
Multivariate characterization, using the SIMCA method, of mortars from two frescoes in Chiaravalle Abbey 797
- Propellant
Microcalorimetric study applied to the comparison of compatibility tests (VST and IST) of polymers and propellants 231
Thermal decomposition of phase-stabilised ammonium nitrate (PSAN), hydroxyl-terminated polybutadiene (HTPB) based propellants. The effect of iron(III) oxide burning-rate catalyst 273
- Protein denaturation
The extra-stability of thermophilic globular proteins: a thermodynamic approach 381
- Protein extra-stability
The extra-stability of thermophilic globular proteins: a thermodynamic approach 381
- Protein tertiary structure
The extra-stability of thermophilic globular proteins: a thermodynamic approach 381
- Pyrolysis
A thermoanalytical study of some zinc-fuelled binary pyrotechnic systems 649
- Pyrotechnic system
Thermomicroscopy studies on the zirconium-potassium perchlorate-nitrocellulose pyrotechnic system 639
- Pyrotechnics
Thermal analysis studies on the zirconium/nickel alloy-potassium perchlorate-nitrocellulose pyrotechnic system 687

- Quaternary eutectic
 Prediction of the quaternary eutectic 73
- Rate controlled thermal analysis (RCTA)
 Applications of new high resolution evolved-gas analysis systems for the characterisation of catalysts using rate-controlled thermal analysis 665
- Rates
 Isothermal kinetic analysis of solid-state reactions using plots of rate against derivative function of the rate equation 1
- Raw clays
 Thermal analysis as a method of characterizing ancient ceramic technologies 743
- Reduction reactions
 Organic solid–solid reactions: exploration of the synthetic potential 433
- Relative humidity
 The effect of relative humidity and pigment type on paint films 755
- Renaissance statue
 Multidisciplinary scientific analysis on restoration of a renaissance masterpiece: Verrocchio's "L'Incredulita di san tommaso", outdoor bronze group of Orsammichele Church in Florence. A case history 729
- Resin
 Calorimetric analysis of the polymerization reaction of a phenolic resin 201
 Thermal degradation of a diglycidyl ether of bisphenol A/1,3-bisaminomethylcyclohexane (DGEBA/1,3-BAC) epoxy resin system 253
- Restoration
 The scientific support of a preservation work: the frescoes in the aosta cathedral upper nave, from the diagnostic research to the completed restoration 769
- Rheology
 Forced-adiabatic sampling environments: useful tools for the study of structure development during polymerization 145
- Rubber
 Some aspects of thermal effects and application properties of engineering plastics and rubber 159
- Sample environment
 Forced-adiabatic sampling environments: useful tools for the study of structure development during polymerization 145
- SAXS
 Forced-adiabatic sampling environments: useful tools for the study of structure development during polymerization 145
- Schottky anomalies
 Heat capacity study of La_2NiO_4 and Pr_2NiO_4 537
- Schottkytype anomaly
 Anomalous lattice specific heat of LiInSe_2 at low temperatures 575
- SEM
 Characterization of the lumps in the mortars of historic masonry 809
 Microstructural characterisation of Ni, Co and Ni–Co fine powders for physical sensors 117
 Oxidation phenomena in a Ti_3Al base-alloy 133
- Silicate
 The effect of disorder on the thermodynamic parameters of silicate glasses 453
- Small samples
 High-resolution adiabatic scanning calorimeter for small samples 27
- Soft independent modelling of class analogy (SIMCA)
 Multivariate characterization, using the SIMCA method, of mortars from two frescoes in Chiaravalle Abbey 797
- Solid solution
 Solid solution in the system $\text{BaCuO}_2\text{--CuO--O}_2$ 567
 Thermal analysis using X-ray diffractometry for the investigation of the solid state reaction of ammonium nitrate and copper oxide 475
- Solid state reactions
 Organic solid–solid reactions: exploration of the synthetic potential 433
- Solid state
 Solid state reactions of chromium(III)-substituted heteropoly tungstates with chromium(III) ammine cations 465
- Sorbent regeneration
 Regenerable sulfur sorbents in coal combustion. Thermodynamics and testing by TG 697
- Specific heat
 Magnetic specific heat and susceptibility measurements on $\text{NdBa}_2\text{Cu}_{3-x}\text{Ga}_x\text{O}_{7-y}$ at low temperatures 95
- Stability
 Studies regarding the thermal stability of some coordination polymers. Polydiphenylphosphinates and polydialkylphosphinates of Cr(III), Fe(III), Mn(II), Co(II), Ni(II) and UO_2^{2+} 295
- Standard
 Some observations on the use of strontium carbonate as a temperature standard for DTA 43

- Strontium carbonate
Some observations on the use of strontium carbonate as a temperature standard for DTA 43
- Structural properties
Structural and thermal properties of the alkaline cuprate KCuO_2 591
- Structure development kinetics
Forced-adiabatic sampling environments: useful tools for the study of structure development during polymerization 145
- Sugar alcohols
Solid state co-crystallization of sugar alcohols measured with differential scanning calorimetry 351
- Sulfur removal
Regenerable sulfur sorbents in coal combustion. Thermodynamics and testing by TG 697
- Superconductivity
Structural and thermal properties of the alkaline cuprate KCuO_2 591
- Synthesis
Thermoanalytical study of synthesis of mixed lithium cobalt oxides 491
- Synthetic gypsum
The thermal dehydration of synthetic gypsum 631
- TA
A thermoanalytical study of some zinc-fuelled binary pyrotechnic systems 649
Thermal analysis of blends made with polyamide 6 and γ -irradiated polyethylenes 261
Thermal analysis of visible-light-activated dental composites 319
- TCA
The effect of relative humidity and pigment type on paint films 755
- Temperature
Some observations on the use of strontium carbonate as a temperature standard for DTA 43
- Temperature programmed desorption
Applications of new high resolution evolved-gas analysis systems for the characterisation of catalysts using rate-controlled thermal analysis 665
- Temperature programmed reaction
Applications of new high resolution evolved-gas analysis systems for the characterisation of catalysts using rate-controlled thermal analysis 665
- Temperature programmed reduction
Applications of new high resolution evolved-gas analysis systems for the characterisation of catalysts using rate-controlled thermal analysis 665
- Temperature-programmed desorption
Adsorption of water on ZSM-5 zeolites 599
Characterization by thermal methods of carbonate surface species on methane-coupling catalysts 677
- Temperature-resolved X-ray diffractor
Thermal analysis using X-ray diffractometry for the investigation of the solid state reaction of ammonium nitrate and copper oxide 475
- Ternary eutectic
Prediction of the quaternary eutectic 73
- Ternary oxide mixtures
Thermoanalytical study of compound formation in the Bi_2O_3 - PbO - CaO system 553
- Tetranuclear Cu(II) complexes
Detecting isokinetic relationships in non-isothermal systems by the isoconversional method 61
- Textures
Calorimetric and microscopic investigations of selected members from the thioester homologous series 415
- TG
Regenerable sulfur sorbents in coal combustion. Thermodynamics and testing by TG 697
Solid solution in the system BaCuO_2 - CuO - O_2 567
Solid state co-crystallization of sugar alcohols measured with differential scanning calorimetry 351
- TG-DTG
Characterization of the lumps in the mortars of historic masonry 809
- TG-DTA
Thermal analysis of mercury superconductor $\text{HgBa}_2\text{CuO}_{4+x}$ and its precursor $\text{Ba}_2\text{CuO}_{3+y}$ 101
Thermal behaviour of γ -titanium phosphate-phenanthroline intercalation compound exchanged with silver and other transition metal ions 507
- TG-DTA-MS
Thermal analysis studies on the zirconium/nickel alloy-potassium perchlorate-nitrocellulose pyrotechnic system 687
Thermomicroscopy studies on the zirconium-potassium perchlorate-nitrocellulose pyrotechnic system 639
- TG-DTG evaluation
Characterization of ancient, byzantine and later historic mortars by thermal and X-ray diffraction techniques 779

TG-DTG

Thermoanalytical research on traditional mortars in Venice 817

TGA

Oxidation phenomena in a Ti_3Al base-alloy 133
Studies regarding the thermal stability of some coordination polymers. Polydiphenylphosphinates and polydialkylphosphinates of Cr(III), Fe(III), Mn(II), Co(II), Ni(II) and UO_2^{2+} 295

Thermal analysis using X-ray diffractometry for the investigation of the solid state reaction of ammonium nitrate and copper oxide 475

Thermal decomposition of phase-stabilised ammonium nitrate (PSAN), hydroxyl-terminated polybutadiene (HTPB) based propellants. The effect of iron(III) oxide burning-rate catalyst 273

TGA-DTA

Microstructural characterisation of Ni, Co and Ni-Co fine powders for physical sensors 117

Thermal aging

Thermal degradation of a diglycidyl ether of bisphenol A/1,3-bisaminomethylcyclohexane (DGEBA/1,3-BAC) epoxy resin system 253

Thermal analysis instruments

A DTA instrument based on optical measurement of temperature 89

Thermal analysis

Adsorption of water on ZSM-5 zeolites 599

Thermal analysis of mercury superconductor $HgBa_2CuO_{4+x}$ and its precursor Ba_2CuO_{3+y} 101

Thermal analysis studies on the zirconium/nickel alloy-potassium perchlorate-nitrocellulose pyrotechnic system 687

Thermal analysis using X-ray diffractometry for the investigation of the solid state reaction of ammonium nitrate and copper oxide 475

Thermal investigation of the role of outer surfaces in the decomposition of crystalline solids 79

Thermoanalytical study of synthesis of mixed lithium cobalt oxides 491

Thermal behaviour

Thermal behaviour of γ -titanium phosphate-phenanthroline intercalation compound exchanged with silver and other transition metal ions 507

Thermal decomposition

Detecting isokinetic relationships in non-isothermal systems by the isoconversional method 61

Thermal investigation of the role of outer surfaces in the decomposition of crystalline solids 79

Thermal index

Estimation of the thermal index of electric insulators by non-isothermal thermogravimetry 245

Thermal properties

Structural and thermal properties of the alkaline cuprate $KCuO_2$ 591

Thermal properties of zinc butyrate complex compounds. Part 1. Urea and thiourea ligands 425

Thermal stability

Oxidation phenomena in a Ti_3Al base-alloy 133
The extra-stability of thermophilic globular proteins: a thermodynamic approach 381

Thermal transformation

Characterization of ancient, byzantine and later historic mortars by thermal and X-ray diffraction techniques 779

Thermodynamic functions

Heat capacity study of La_2NiO_4 and Pr_2NiO_4 537

Phase transitions and crystal-field levels in Nd_2NiO_4 523

Thermodynamic standard functions

Anomalous lattice specific heat of $LiInSe_2$ at low temperatures 575

Thermomicroscopy

Investigation of the binding media of paintings by thermoanalytical and spectroscopic techniques 705

Thermomicroscopy studies on the zirconium-potassium perchlorate-nitrocellulose pyrotechnic system 639

Thermosetting

Some aspects of thermal effects and application properties of engineering plastics and rubber 159

Thioester homologous series

Calorimetric and microscopic investigations of selected members from the thioester homologous series 415

Thiourea

Thermal properties of zinc butyrate complex compounds. Part 1. Urea and thiourea ligands 425

 Ti_3Al

Oxidation phenomena in a Ti_3Al base-alloy 133

Time-lapse photography

Thermomicroscopy studies on the zirconium-potassium perchlorate-nitrocellulose pyrotechnic system 639

- Time-resolved X-ray diffractometry
Thermal analysis using X-ray diffractometry for the investigation of the solid state reaction of ammonium nitrate and copper oxide 475
- γ -Titanium phosphate-phenanthroline Compounds
Thermal behaviour of γ -titanium phosphate-phenanthroline intercalation compound exchanged with silver and other transition metal ions 507
- TMA
Thermal analysis of visible-light-activated dental composites 319
- Transition metal ions
Thermal behaviour of γ -titanium phosphate-phenanthroline intercalation compound exchanged with silver and other transition metal ions 507
- Tungstate
Solid state reactions of chromium(III)-substituted heteropoly tungstates with chromium(III) ammine cations 465
- Turbidity
Gel-sol phase transition of poly(3-hydroxybutyrate) in dimethylformamide 307
- Two-state denaturation
The extra-stability of thermophilic globular proteins: a thermodynamic approach 381
- Typical lime mortars
Characterization of ancient, byzantine and later historic mortars by thermal and X-ray diffraction techniques 779
- Urea
Thermal properties of zinc butyrate complex compounds. Part 1. Urea and thiourea ligands 425
- Vanadium pentoxide reduction
Applications of new high resolution evolved-gas analysis systems for the characterisation of catalysts using rate-controlled thermal analysis 665
- Video recording
Thermomicroscopy studies on the zirconium-potassium perchlorate-nitrocellulose pyrotechnic system 639
- Visible-light activation
Thermal analysis of visible-light-activated dental composites 319
- Vitreous materials
Glass transition effect of amorphous borates 457
- Vitrification
The effect of disorder on the thermodynamic parameters of silicate glasses 453
- VST
Microcalorimetric study applied to the comparison of compatibility tests (VST and IST) of polymers and propellants 231
- Wall paintings
Multivariate characterization, using the SIMCA method, of mortars from two frescoes in Chiaravalle Abbey 797
- Waste disposal
Application of calorimetry in studies of the immobilization of heavy metals in cementitious materials 613
- Water-octan-1-ol mixtures
Effect of water as cosolvent in the organic phase on the partitioning of nonelectrolytes between aqueous solution and octan-1-ol 361
- Weight gain
Oxidation phenomena in a Ti_3Al base-alloy 133
- X-ray diffraction
Glass transition effect of amorphous borates 457
Multidisciplinary scientific analysis on restoration of a renaissance masterpiece: Verrocchio's "L'Incredulita di san tommaso", outdoor bronze group of Orsammichele Church in Florence. A case history 729
Oxidation phenomena in a Ti_3Al base-alloy 133
Structural and thermal properties of the alkaline cuprate $KCuO_2$ 591
The scientific support of a preservation work: the frescoes in the aosta cathedral upper nave, from the diagnostic research to the completed restoration 769
Thermal analysis studies on the zirconium/nickel alloy-potassium perchlorate-nitrocellulose pyrotechnic system 687
Thermoanalytical study of compound formation in the Bi_2O_3 - PbO - CaO system 553
- X-ray powder diffraction
Solid state co-crystallization of sugar alcohols measured with differential scanning calorimetry 351
- X-ray powder diffractometry
Organic solid-solid reactions: exploration of the synthetic potential 433
- X-ray diffractometry
Gaining insight into structural changes with dynamic diffraction methods 33

XRD

Microstructural characterisation of Ni, Co and Ni-Co fine powders for physical sensors 117

Yttrium oxide

Characterization by thermal methods of carbonate surface species on methane-coupling catalysts 677

Zeolite

Zeolitization of glasses: a calorimetric study 443

Zinc

A thermoanalytical study of some zinc-fuelled binary pyrotechnic systems 649

Zinc butyrate

Thermal properties of zinc butyrate complex compounds. Part 1. Urea and thiourea ligands 425

Zirconium/nickel alloy-potassium perchlorate-nitrocellulose mixtures

Thermal analysis studies on the zirconium/nickel alloy-potassium perchlorate-nitrocellulose pyrotechnic system 687

Zirconium-potassium perchlorate-nitrocellulose mixture

Thermomicroscopy studies on the zirconium-potassium perchlorate-nitrocellulose pyrotechnic system 639

ZSM-5 zeolites

Adsorption of water on ZSM-5 zeolites 599