Special Issue

Thermal Analysis of Materials

Message from the Guest Editors

Thermal analysis for material samples is based on the principle of the material's response to temperature. This method consists of several techniques, including differential thermal analysis (DTA), differential scanning calorimetry (DSC), dynamic mechanical analysis (DMA), thermogravimetric analysis (TGA), and others. These techniques are applied to identify various material properties such as the melting point, specific heat capacity, crystallization, polymorphism, composition, glass transition, and also purity. The scope of the samples analysed by this method is quite broad, including polymers, foods, and metals. The thermoplastic properties of the polymer raw material can be identified by DSC, while the polymer composition is analysed by TGA. In the food industry, thermal analyses such as DTA and DSC are used to study changes in food products, both physical and chemical, which are caused by temperature variation. Information on these changes is very important because it affects the main properties of the final food product, such as the taste, texture, and durability.

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