



Thermal Properties and Applications of Polymers

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Message from the Guest Editor

Dear Colleagues,

Thermal analysis is a critical analytical and characterization tool in the field of materials sciences and analytical chemistry. Traditional thermal analysis techniques include DSC, TGA, thermomechanical analysis (TMA), DMA, dielectric thermal analysis (DTEA), isothermal titration calorimetry (ITC) and heat transfer analysis (such as thermal diffusivity and thermal conductivity analysis). Some techniques such as DSC were further developed into modulated-temperature DSC (MTDSC), pressure perturbation calorimetry (PPC), micro/nano DSC, as well as fast-scan DSC (F-DSC). These various thermal methods characterize the mechanical properties, mass, temperatures, heats and/or specific heat capacity changes at the thermodynamic and kinetic transitions of different materials. Moreover, thermal analysis can also help quantitatively monitor the structural changes of materials during the heating, cooling and isothermal measurements. In this Special Issue, we will highlight recent accomplishments of thermal analysis on polymer based materials, and illustrate new methods developed in the field.





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Message from the Editor-in-Chief

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