

Special Issue

Thermal Properties and Applications of Polymers

Message from the Guest Editor

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.

Guest Editor

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Message from the Editor-in-Chief

Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 4.9.

I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Alexander Böker

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