



Fundamentals in Polymers Revealed by Non-destructive Methods

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Message from the Guest Editor

Over the last decade, non-destructive techniques (NDT) dedicated to the understanding of polymer physics has become of peculiar interest due to the improvement of computational and automation methods and of the resolution of the testing methods. These techniques allow to measure characteristic times of fundamental phenomena in polymers (molecular motion, phase transitions, etc.) and provide access to their spatial heterogeneities by implementing cartographies at microstructural scale.

The special issue aims to collect some manuscripts about one or several non-destructive techniques, providing insight into structure-property relationship. Moreover, numerical simulation and modeling (physically based modeling, molecular dynamics) to complement experimental characterization will also be of interest. Overall, this special issue will serve to improve the fundamental understanding of several phenomena in polymer systems (shape memory, phase changes, crack propagation, plastic mechanisms) that is of significance in a wide range of applications (fatigue life of polymers, energy storage in polymer structures, polymer recycling, etc.).





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Message from the Editor-in-Chief

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