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Microfluidics as a Platform to Manufacture, Manipulate and Test Polymeric Entities

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Message from the Guest Editor

Microfluidics has proven to be an extraordinary working platform for producing, manipulating and studying fluid and solid microentities, such as fibers, drops, capsules, particles and ligaments. The applications of these microentities is of great interest in very diverse fields, such as pharmacy, biomedicine, biotechnology, industrial engineering, and the food and agriculture industry, among others. Many of the microfluidic applications involve the processing of polymeric/viscoelastic microentities (filaments, droplets, jets, capsules, etc.). The interaction between the processing conditions and the liquid rheology plays a fundamental role in those applications. This interaction can fundamentally alter the dynamical response of the system. This Special Issue aims to present studies in this field that will contribute to the understanding of the phenomena involved and the development of new techniques. The Special Issue will cover work ranging from fundamental analyses to applications of microfluidics as applied to polymeric/viscoelastic liquids. Experimental, numerical and theoretical work is welcome.



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Special Issue



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Message from the Editor-in-Chief

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