Special Issue

Polymer Processing: Modeling and Correlations Finalized to Tailoring the Plastic Part Morphology and Properties

Message from the Guest Editors

The analysis of polymer processing operations is a very wide and complex subject; indeed, during polymer processing, viscoelastic fluids are forced to deform into desired geometries using non-homogeneous velocity and temperature fields down to solidification. Depending on the operating conditions, the properties of the final part can change even more than one order of magnitude. The aim of this Special Issue is to select progresses or reviews in the understanding/description of the phenomena involved along the chain: Processing–morphology–properties. Keywords

- polymer processing
- modeling morphology evolution
- morphology of polymeric parts in relation to their processing
- morphology-properties relationships of polymeric parts
- polymeric part properties

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Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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