Advances in Injection Molding: Process, Materials and Applications

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Message from the Guest Editors

Injection molding is a well-established manufacturing technology. The exploitation of high-performance materials and the recent design of components and devices in emerging fields of application open up new scenarios. This breakthrough seems particularly applicable to micro injection molding, the interest in which is rapidly growing thanks to the worldwide increasing demand for miniaturization.

Therefore, the aim of this SI is to collect scientific contributions on the recent advances in injection molding and process/materials interactions. In particular, analyses related to the following main topics will be appreciated: the process itself (process parameters influence, optimization, process modeling, simulation, artificial intelligence), materials and novel composites to be used (how their thermal and mechanical properties are modified by the process), characterization of products (metrology, quality control, monitoring), and fields of application (component performance with a special focus on sustainable and climate-neutral approaches, health-care, communications devices, optical components).

Special Issue

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Message from the Editor-in-Chief

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