



## Recent Developments in Polymer Foaming Processes

Guest Editor:

**Dr. Jose Antonio Ruiz**

Polymer Research Group, Faculty  
of Science, University of Burgos,  
09001 Burgos, Spain

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### Message from the Guest Editor

Micro and nanocellular polymers have been deeply analyzed in the last decades due to their combination of low weight and outstanding thermal and mechanical properties, especially in the nanocellular range (below 1 mm). For this reason, these high-performance materials can be employed in many different applications related to thermal and acoustical isolation, dumping, low-weight absorption energy materials, separation membranes, or filters. In this sense, the analysis of the physical and chemical foaming processes of polymers has become a key point to control density, porosity, and, subsequently, the final properties of the foamed materials.

This Special Issue presents an overview of the latest developments in this quickly evolving field, including the understanding of the physical mechanism of the polymer foaming processes, the formation and characterization of the cellular structures, the determination of the structure-properties relationship and the analysis of the different foaming procedures, both chemical and physical.





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Lehrstuhl für Polymermaterialien  
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University of Potsdam, 14476  
Potsdam-Golm, Germany

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*Polymers* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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