Special Issue

Polymer Microcellular Foaming and Its Functionalization

Message from the Guest Editors

Due to the special structures of microcellular polymeric foams, they have predominant advantages over traditional polymer foams, i.e., lightweight, material saving, superior comprehensive mechanical properties. With the introduction of different kinds of additives, such as carbons (carbon nanotubes, graphene, carbon nanofibers), conductive and electromagnetic interference shielding foams can be manufactured. Furthermore, microcellular-foamed polymers can also be used in absorption or desorption of oil or organic agents, with the presence of open cells and changing in contact angles. Other usages of microcellular foams are structural parts, tissue-engineering scaffolds, insulations of heat or sound, and so on. Based on the potential and broadened applications of microcellular foams, this Special Issue addresses polymeric microcellular foams with regard to the processing and functional applications of both traditional thermoplastic and biodegradable materials, as well as their composites. Thermosets and elastomers are included, too. We cordially invite you to submit original research or review articles on this subject.

Guest Editors

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Message from the Editor-in-Chief

Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 4.7.

I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Alexander Böker
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