

## Special Issue

# Advances in Multifunctional Polymer-Matrix Composites

### Message from the Guest Editor

Polymer composites combine the lightness and toughness of a polymer matrix with the unique properties of the discontinuous phase(s). Being constituted of multiple phases, polymer-matrix composites are also the ideal materials to be designed as multifunctional, thus performing multiple functions simultaneously and responding to stimuli of different nature. Multifunctionality is beneficial especially in applications that require weight minimization in combination with other mechanical and functional properties, such as self-healing, antibacterial, shape-memory properties, energy storage and conversion, electrical or thermal conductivity, wear and corrosion resistance, sensing and actuating ability, and biocompatibility. This Special Issue welcomes original research and review articles in the field of multifunctional polymer-matrix composites and nanocomposites covering the design, processing, characterization and numerical modeling of these materials. Research presenting substantial advancements in high-end sectors, such as the automotive, aerospace, biomedical and electronics fields, is particularly welcome.

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### Guest Editor

Dr. Giulia Fredi

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### Deadline for manuscript submissions

closed (31 January 2022)



## Polymers

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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 4.9.

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.

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### Editor-in-Chief

Prof. Dr. Alexander Böker

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