



## Advances in Multifunctional Polymer-Matrix Composites

Guest Editor:

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Deadline for manuscript  
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### Message from the Guest Editor

Dear Colleagues,

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.

Dr. Giulia Fredi  
*Guest Editor*





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