



## Carbon-Based Polymer Nanocomposites

Guest Editors:

**Dr. Marco Monti**

Proplast, Via Roberto di Ferro 86,  
15122 Alessandria (AL), Italy

**Dr. Ilaria Armentano**

Department of Economics,  
Engineering, Society and  
Business Organization (DEIM),  
University of Tuscia, 01100  
Viterbo, Italy

Deadline for manuscript  
submissions:

**closed (31 December 2022)**

### Message from the Guest Editors

In recent years, carbon-based polymer nanocomposites have gathered increasing interest thanks to the high efficiency of nano-sized carbon fillers in modifying the electrical and thermal conductivity of the polymer in which they are embedded, even at a very low content. Moreover, carbon fillers can significantly affect the thermal stability and mechanical and barrier properties, with a resulting multifunctional effect that makes them particularly desirable.

The aim of this Special Issue is to collect several studies on the development of advanced polymer nanocomposites based on carbon-based nanofillers (such as, for instance, carbon nanotubes, graphene, etc.). The submitted studies can deal with both thermoplastic and thermosetting polymers as a matrix. Papers presenting studies on the relationship between processing, morphology, and properties, as well as those focused on the development of novel technological applications, are particularly welcome in this Special Issue.

