Special Issue

Eco-Friendly Nanocomposites for Biomedical Applications

Message from the Guest Editor

Recent trends in the nanocomposites field show bio-based/environmentally friendly materials to be among the components in these nanocomposite materials. Particular attention has been paid to the use of bio-based/biodegradable polymers as a matrix component in nanocomposite applications, because of their great widespread potential and advantages over other traditional synthetic materials. In this view, eco-friendly nanocomposites are becoming a subject of intensive research, owing to their inherent properties such as non-toxicity, biocompatibility, biodegradability as well as improved structural and functional properties. In particular, the applicability of eco-friendly polymer nanocomposites to biomedical applications is a rapidly emerging area of development. One area of intense research involves electrospinning for the production of bioresorbable nanofiber scaffolds for tissue engineering applications. Other areas concern hemodialysis membranes; diffusion-controlling membranes; membrane carriers for enzyme immobilization in biosensors; coating materials for drugs and drug-releasing scaffolds.

Guest Editor

Prof. Dr. Nadia Lotti

Department of Civil, Chemical, Environmental and Materials Engineering, University of Bologna, 40126 Bologna, Italy

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

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Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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