

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

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Deadline for manuscript submissions

closed (30 June 2019)



Applied Sciences

an Open Access Journal
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Impact Factor 2.5
CiteScore 5.5



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