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Nanocomposites as Effective and Targeted Antibacterial Agents

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Deadline for manuscript submissions:
31 August 2020

Message from the Guest Editors

Biomaterials-based nanoparticles (NPs), such as chitosan or cellulose, and nanostructured lipid carriers (NLCs) are increasingly used to target bacteria as an alternative to antibiotics.

The bio-based matrices not only provide support for nanoparticles, but can also improve the antimicrobial effects of the agents they incorporate, and expand the potential applications of these materials to meet multiple demands in the biomedical field, in water treatment, and in the food industry. The use of nanocomposites containing natural compounds to confer antimicrobial properties is also an interesting challenge in the formulation of non-active medical devices and in the design of biodegradable food packaging.

This Special Issue will focus on enhancing the antimicrobial properties of nanocomposites as effective and targeted antibacterial agents. They could either actively release antimicrobial agents or passively act through antiseptic surface properties.

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Message from the Editor-in-Chief

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CiteScore (2018 Scopus data): **3.26**, which equals rank 97/439 (Q1) in 'General Materials Science'.

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