Special Issue

Antimicrobial Nanocomposites for Biomedical Applications

Message from the Guest Editors

It is well known that infections are difficult to treat due to the fact that the microorganisms involved can easily adapt to treatment with common antibiotics. In this context, the development of new antimicrobials based on nanocomposite biomaterials with antimicrobial properties is of great interest to the scientific community. This new type of antimicrobials could reduce the use of conventional antibiotics and the development of drug-resistant microbes in the healthcare domain, leading to a reduction in hospitalization costs and an improvement in patients' quality of life.

The main aim of this Special Issue will be to highlight the latest advances in the development and complex characterization of new antimicrobial nanocomposites for biomedical application (infection prevention and treatment, prevention of bacterial colonization and biofilm formation, bone fillers, dentistry, wound dressings, drug delivery and other relevant applications). We invite all colleagues to share contributions that include the development of antimicrobial nanocomposites, their complex characterization and their potential biomedical applications.

Guest Editors

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Deadline for manuscript submissions

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Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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