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Antimicrobial Materials and Surface

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Deadline for manuscript submissions:
closed (30 November 2021)

Message from the Guest Editors

Dear Colleagues,

Antimicrobial materials and surfaces are able to kill microorganisms such as bacteria, fungi, yeasts, and viruses, limiting the spread of hospital-associated infections, which account for more than 100,000 deaths per year worldwide. Apart from the health applications, antimicrobial activity is also present in numerous objects surrounding us such as food packaging, plastics, and textiles. To acquire antimicrobial activity, materials and surfaces have to be functionalized in a variety of different processes such as (i) their coating with antibiotics, metals, or metallic nanoparticles such as copper, silver, or antimicrobial peptides (AMPs); (ii) the incorporation into the materials of cationic polymers; or (iii) the use of photocatalytic molecules conferring self-cleaning activity to surfaces and materials.

In this Special Issue entitled “Antimicrobial Materials and Surfaces”, we invite authors to submit articles covering all aspects of this theme, including new materials, new molecules, new technology, new activities, as well as a deeper characterization of already-known antimicrobial materials and surfaces.

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Editor-in-Chief

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Message from the Editor-in-Chief

There are very few fields that attract as much attention as scientific endeavor related to antibiotic discovery, use and preservation. The public, patients, scientists, clinicians, policy-makers, NGOs, governments, and supra-governmental organizations are all focusing intensively on it: all are concerned that we use our existing agents more effectively, and develop and evaluate new interventions in time to face emerging challenges for the benefit of present and future generations. We need every discipline to contribute and collaborate: molecular, microbiological, clinical, epidemiological, geographic, economic, social scientific and policy disciples are all key. *Antibiotics* is a nimble, inclusive and rigorous indexed journal as an enabling platform for all who can contribute to solving the greatest broad concerns of the modern world.

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