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Advanced Antimicrobial Materials

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Deadline for manuscript submissions:
closed (31 December 2021)

Message from the Guest Editors

Nosocomial infections (NIs) have been a worldwide healthcare issue for decades. The spread of micro-organisms should be urgently limited because the projected mortality rate due to HAIs is estimated to reach more than 10 million per year in 2050, which is higher than the projected rate for cancer.

In order to prevent this risk, many devices used in hospitals have been covered with antibacterial coatings which could either kill micro-organisms (biocidal coatings) or prevent their adhesion/growth (passive coatings). In this context, a wide diversity of materials have been described in literature.

This Special Issue is dedicated to original research and review papers of the highest quality that consider the synthesis and design of new antimicrobial materials (e.g., coatings, films, hydrogels, 3D systems) which significantly prevent the growth of or eradicate bacteria. While centered on materials science, contributions to this Special Issue are expected to have significant microbiological relevance.

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Message from the Editor-in-Chief

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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