

Special Issue

Preparation and Application of Advanced Coating Materials with Antibacterial and Antifouling Properties

Message from the Guest Editor

Nowadays, one of the most pressing problems worldwide is the apparition of drug-resistant microbial strains, which can have life-threatening consequences. Recently, great efforts have been made in order to engineer novel materials for antibacterial devices that could be used in biomedical applications. Due to the high incidence of postoperative infections related to implants, lately, considerable research has been carried out on the development of biocompatible and antibacterial materials that could be used as coatings for different implantable devices or for surface coatings. The aim of this Special Issue is to explore the development and characterization of novel coatings with antibacterial properties that could be used in various biomedical applications, including tissue engineering, implantable devices, and antibacterial devices.

Guest Editor

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Deadline for manuscript submissions

closed (20 December 2024)



Materials

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



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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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