Special Issue

Novel Antibacterial Materials and Coatings

Message from the Guest Editors

The surge in antibacterial-resistant infections has severely challenged our ability to provide effective protection and treatment, resulting in increasing global attention toward exploring novel materials. There is an urgent need to develop novel antibacterial materials and coatings to protect, prevent, and improve human health against deadly pathogens currently resistant to most antibiotics. Recently, materials with antibacterial properties have gained more recognition for improving therapeutic outcomes, leading to increased demand for their application in various fields of biomedicine. Special attention has been devoted to imparting materials, either new or enhanced properties by surface modification, size optimization, and surface functionalization, or using additives to introduce new functions, all of which provide exciting opportunities to explore and combat the growing threat of antibacterial resistance. It is our pleasure to invite you to submit your work to this Special Issue. Primary research and review papers are welcome in any of the areas mentioned above.

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Deadline for manuscript submissions

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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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