

Special Issue

Advanced Antimicrobial Materials

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.

Guest Editors

Dr. Thibaud Coradin

Laboratoire Chimie de la Matière Condensée de Paris, Sorbonne Université, CNRS, UMR 7574, 4 Place Jussieu, 75005 Paris, France

Dr. Davy-Louis Versace

CNRS Centre National de la Recherche Scientifique, Paris, France

Deadline for manuscript submissions

closed (31 December 2021)



Materials

an Open Access Journal
by MDPI

Impact Factor 3.1
CiteScore 5.8
Indexed in PubMed



mdpi.com/si/49345

Materials

MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

[mdpi.com/journal/
materials](https://mdpi.com/journal/materials)





Materials

an Open Access Journal
by MDPI

Impact Factor 3.1
CiteScore 5.8
Indexed in PubMed



[mdpi.com/journal/
materials](https://mdpi.com/journal/materials)



About the Journal

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.

Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q1 (Metallurgy and Metallurgical Engineering) /
CiteScore - Q2 (Condensed Matter Physics)