Special Issue

Advances in Antibacterial Coatings

Message from the Guest Editor

Human activities increasingly require antiseptic (and therefore antibacterial, antiviral, antifungal) properties for the surfaces of objects and structures with which we interact every day. In addition to the most obvious applications such as operating rooms, surgical instruments, prostheses and dental implants or other orthopedic aids, there are also requests from industrial chains such as food handling operations. Unfortunately, the current pandemic has increased the demand even further. Therefore, this Special Issue is dedicated to research and review papers tackling the problems of imparting antibacterial properties to objects and surfaces by using coatings for biomedical and other engineering applications. Possible topics for this Special Issue include, but are not limited to, the following:

- Antibacterial coatings obtained by physical vapor deposition (PVD) technologies;
- Antibacterial coatings obtained by chemical vapor deposition (CVD) technologies;
- Antibacterial coatings obtained by atmospheric plasma treatments;
- Antibacterial coatings obtained by grafting or surface functionalization;
- Antibacterial coatings obtained by spraying technologies.

Guest Editor

Dr. Sergio Perero

Department of Applied Science and Technology, Politecnico di Torino, 10129 Torino, TO, Italy

Deadline for manuscript submissions

closed (31 October 2021)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/46537

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

mdpi.com/journal/materials

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/journal/materials

MDPI

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