

Special Issue

Tackling Future Epidemics: Antibacterial, Antimycotic and Antiviral Active Surfaces

Message from the Guest Editor

This Special Issue has been conceived to select and to provide visibility to the most relevant experimental and theoretical results in the field of coatings or surfaces specifically engineered for antimicrobial, antibiotic, and antimycotic purposes. Experimental works with an applicative perspective for the nosocomial environment and with an expected high impact on healthcare are strongly encouraged. In particular, the topic of interest includes but is not limited to

- New structured/unstructured surface or coating with antimicrobial or antifouling properties;
- Mechanical characterization of potentially antimicrobial coating and surfaces, with particular attention to adhesion, wear resistance, and durability;
- Functional characterization of films and surfaces tailored to contrast the diffusion of pathogens;
- Experimental and theoretical study of mechanism of interactions of pathogens with potential coatings constituents in the perspective of a future applications;
- Simulations on the mechanism of interaction of microbicidal/antifouling surfaces with pathogens;
- Self-cleaning surfaces with either modelistic or experimental results.

Guest Editor

Dr. Giulio Benetti

Azienda Ospedaliera Universitaria Integrata, Verona, Italy

Deadline for manuscript submissions

closed (31 December 2023)



Coatings

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Impact Factor 2.8
CiteScore 5.4



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

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About the Journal

Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

Editors-in-Chief

Prof. Dr. Wei Pan

State Key Laboratory of New Ceramics and Fine Processing, School of Materials Science & Engineering, Tsinghua University, Beijing 100084, China

Dr. Emerson Coy

NanoBioMedical Centre, Adam Mickiewicz University in Poznań, ul. Wszechnicy Piastowskiej 3, 61-614 Poznań, Poland

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