



## Microbial Films-the Interplay of Physics and Biology

Guest Editor:

**Prof. Dr. Luis F. Melo**

Department of Chemical  
Engineering, Faculty of  
Engineering, University of Porto,  
4200-465 Porto, Portugal

Deadline for manuscript  
submissions:

**closed (31 January 2022)**

### Message from the Guest Editor

Authors are invited to submit their experimental modelling/simulation and theoretical work focused on the physics of biofilms and its interaction with biological aspects, such as: (i) biofilm mechanical properties and their relation to microbial attachment, growth and matrix maturation; (ii) effects of the physics of the environment on biofilm development (interactions with suspended particles, impact of air/gas-liquid flows, hydrodynamic patterns/shear stress, temperature, etc.); (iii) experimental methodologies to assess/interpret biofilm behaviour based on the measurement of physical parameters (rheology, porosity, density, tortuosity, ...); (iv) physical methods for online monitoring of biofilm development at lab and industrial scale, diffusion-mass transfer around and inside biofilms; (v) nanostructured surfaces/topographies and microbial adhesion. Other topics are welcome provided they keep the focus on physical approaches and their impact on biofilm metabolism, structure and spatial distribution of biofilm components.





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## Editor-in-Chief

### Dr. Nico Jehmlich

Department of Molecular  
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Centre for Environmental  
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## Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

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*Microorganisms* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
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