



an Open Access Journal by MDPI

Protein Adsorption on Materials and Its Applications

Guest Editor:

Dr. Sebastien Balme

European Institute of Membranes, University of Montpellier, 34095 Montpellier, France

Deadline for manuscript submissions: closed (30 June 2021)

Message from the Guest Editor

Dear Colleagues,

The protein adsorption at the solid–liquid interface has a long history, from the origin of life to modern highperformance materials for industry. It is an old but exciting and active field of research thanks to various applications. Usually, protein adsorption is used as a simple route to improve properties of materials, such as catalysts for waste matter degradation or biofuel production, biosensors, improving colloid stability, etc. Protein adsorption is sometimes banned, when it induces membrane fouling or a corona around the nanoparticles. It is also the first step in the response to artificial material in implants or nanoparticle injections. The broad range of types of protein and the lack of a typical behavior make it an endless topic.

This Special Issue aims to offer a unique platform to discuss all the aspects of Protein Adsorption on Materials, covers broad applications involving protein adsorption on material, the protein corona, as well as strategies to reduce fouling by protein. We also aim for contributions on the more fundamental aspects of kinetics, the mechanisms of protein adsorption and the impact on their structure and/or properties.









an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Maryam Tabrizian

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

Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The iournal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites. advanced materials characterization, porous materials, manufacturing processes and svstems. 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.

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)

Contact Us

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