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Protein Adsorption on Materials and Its Applications

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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 high-performance 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.

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Message from the Editor-in-Chief

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