

Special Issue

Mechanisms and Kinetics of Interactions of Biomolecules at Interfaces

Message from the Guest Editors

The adsorption of biocolloids, particularly proteins, at solid/liquid interfaces is important both in terms of their industrial preparation, purification or storage. Especially important are the control of protein and cell separation, the production of biosensors and biochips, the transport of medicines, as well as the bio-integration of materials used for the production of medical implants. Although deposited biomolecules play a crucial role in many processes, the mechanisms and kinetics of the immobilization processes are poorly understood. There is a lack of systematic investigations of the relationship between the deposition conditions and resulting biomolecules' coverage, local distribution, the orientation of adsorbed particles, and their bioactivity. This Special Issue is devoted to the most recent research focused on the determination of the mechanisms of biomolecules (proteins, peptides, biocompatible macroions) at solid substrates. Potential topics also include the application of new techniques in biomolecules deposition research and the analysis of biomolecules' interactions with cells, viruses, etc.

Guest Editors

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