Special Issue

Biomolecules & Bioseparations: From Materials to Emerging Technologies

Message from the Guest Editor

This Special Issue, "Biomolecules & Bioseparations: From Materials to Emerging Technologies", focuses on emerging applications of novel methodologies for a mechanistic study on the functions of biomolecules and on bioseparations, including biosensors. Advances in bioseparations are the separation and purification of biomacromolecules or pathological factors using lab-on-chip device, microchannel electrophoresis, advanced aqueous two-phase systems, and others. If these characteresitcs are involved, work regarding biomaterials, such as biomimetic and (bio)hybrid materilas, and directed self-assembled biomaterials, will be also centeral topics of this Special Issue.

In the medical field, key molecules exploited by means of chemical biology, drug discovery, and other omics research have been integrated to emerge a novel platform. For example, a tailored-made multi-functional molecule has opened up new fields in search of de novo or in silico design, and accelerated the integration of novel biosensor and diagosis systems (i.e., a dynamic responsive nature, like soft matter, is required in the mulit-functional molecule.

Guest Editor

Prof. Dr. Toshinori Shimanouchi

Graduate School of Environmental and Life Science, Okayama University, Okayama 700-8530, Japan

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

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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