



an Open Access Journal by MDPI

Biomolecules & Bioseparations: From Materials to Emerging Technologies

Guest Editor:

Prof. Dr. Toshinori Shimanouchi

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

Deadline for manuscript submissions:

closed (31 March 2021)

Message from the Guest Editor

Dear Colleagues.

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 characteresites 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.

Prof. Toshinori Shimanouchi Guest Editor











an Open Access Journal by MDPI

Editor-in-Chief

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

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

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), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us