



Application of Neutron and X-ray Scattering in Biophysics and Biomaterials Science

Guest Editor:

Dr. Fabrizio Fiori

Associate Professor, Department DISCO, Università Politecnica delle Marche, Via Brecce Bianche 12, 60131 Ancona, Italy

Deadline for manuscript submissions:

20 November 2024

Message from the Guest Editor

Dear Colleagues,

X-ray and neutron scattering techniques have proven to be very powerful tools in the study of biological structures. Currently, certain X-ray techniques are available in many laboratories, but even more of them, and those with the best performance, can be found at large synchrotron radiation facilities. At the same time, dedicated nuclear reactors and spallation sources provide neutron beams that can be exploited in a plethora of research fields, including bioscience. Techniques include small-angle scattering, crystal and powder diffraction, reflectometry, inelastic scattering, imaging, and X-ray absorption fine structure (XAFS), and, more recently, techniques based on X-ray free-electron lasers (XFELs). These have led to the acquisition of a huge amount of knowledge on both the structure and the functionality of many biological macromolecules, such as membranes, lipids, and proteins.

Inspired by these topics and your recognized expertise in the field of X-ray/neutron scattering applications in bioscience, we would like to invite you to contribute an original research or review article to this Special Issue.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento 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

Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
applsci@mdpi.com
[X@Applsci](#)