Special Issue

X-ray Medical and Biological Imaging

Message from the Guest Editors

X-ray medical and biological imaging encompasses all recent developments in the application of X-rays to the characterisation and visualisation of biological samples. The rapid development of laboratory, synchrotron, and fourth-generation X-ray sources is creating a wealth of opportunities for advancing X-ray imaging of biological objects ranging from single cells all the way up to whole organs and beyond. Improvements in the temporal and spatial resolution as well as the sensitivity of X-ray imaging have created a wealth of new opportunities for understanding biological structure and function relevant to human health. The aim of this Special Issue is to present the latest research and methods that are being developed in the field of X-ray medical and biological imaging that could lead to major advances in our ability to visualise biological samples in 2D and 3D with a particular focus on fundamental research and emerging imaging techniques. This issue will provide a platform for highlighting work that could one day be translated into new X-ray methods that could benefit human health and aid in understanding disease.

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Deadline for manuscript submissions

closed (20 October 2022)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/71723

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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

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