

Special Issue

Advanced Research and Analysis on Radiation Impact

Message from the Guest Editors

The measurement and detection of ionizing radiation is a complex challenge, as it requires precise characterization of both the radiation fields and the detection systems used. In recent years, the expansion of new medical facilities, such as proton therapy units, and industrial infrastructures, such as ultra-intense laser systems, has diversified the traditional sources of irradiation.

Moreover, ionizing radiation, particularly gamma radiation, has been shown to induce significant modifications in the structural and chemical properties of materials. These effects can be harnessed for applications such as the synthesis of nanocomposites with enhanced optical or mechanical properties, as well as for altering the conductivity and stability of semiconductor materials used in radiation detectors.

This Special Issue aims to present recent advances in the field of ionizing radiation measurements, as well as the effects of ionizing radiation on the properties of materials. It highlights innovations in instrumentation, materials and analytical techniques that help to improve the accuracy and reliability of measurements in various scientific and technological contexts.

Guest Editors

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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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