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Recent Advances in Radiation Detection and Imaging Systems

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Message from the Guest Editor

Radiation detection and imaging systems provide a means to study phenomena and processes ranging from the smallest to the largest scales known to us. They provide means to visualize processes in the human body, to understand, prevent, and cure diseases, to ensure the safety and security of nuclear materials and facilities, to prevent the proliferation of illicit materials, to respond to emergencies, or to map the elemental composition of the surface of our Earth or other planets and objects in our solar system. Recent advances in radiation detection and imaging concepts enable enormous gains in sensitivity and resolution, providing unprecedented ways of elucidating these wide-ranging phenomena and processes. They are based on the continuing developments in radiation detection materials and their implementations, signal readouts and processing methodologies and technologies, as well as the capabilities of computing and data analytics.

This Special Issue aims to cover important aspects in these developments, driven by the challenges and opportunities in different fields underpinned by the technological advances in radiation detection and imaging.



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Special Issue



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Message from the Editor-in-Chief

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