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Room Temperature Semiconductor Detectors: Development and Applications

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Message from the Guest Editors

Dear Colleagues,

Over the last two decades, room-temperature semiconductor detectors (RTSDs) have been extensively proposed for X-ray and gamma-ray spectroscopy and imaging, opening new perspectives in several application areas such as synchrotron science, homeland security, medical imaging, and astrophysics. RTSDs are an important class of X-ray and gamma-ray sensors able to perform high-resolution spectroscopy near room-temperature conditions. Several high-Z and wide-bandgap compound semiconductors (CdTe, CdZnTe, GaAs, HgI₂, TlBr) have been developed, and continuous efforts have been made in the advancement of the crystal growth and device fabrication technologies.

In this framework, we are glad to edit this Special Issue on "Room Temperature Semiconductor Detectors: Development and Applications".

This Special Issue aims to receive submissions of both review and original research articles related to the state-of-the-art in RTSD sensors as well as prospects for future developments and applications.





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Message from the Editor-in-Chief

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