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Computed Tomography and X-ray Imaging in Material Science

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Message from the Guest Editors

Dear colleagues,

As a penetrating high-energy ray, X-ray plays a crucial role in the fields of biomedicine, non-destructive industrial exploration, safety detection and high-energy physics, being applied to computed tomography technology in disease diagnosis. In addition, the femto second frame rate of free electron lasers makes it possible to study electronic processes. The quality of X-ray imaging is closely related to scintillators, which can convert high-energy radiation into ultraviolet light.

In order to ensure that X-ray imaging is more able to benefit mankind, numerous researchers are committed to developing flexible, low-dose, high-spatial and temporal resolution scintillator materials.

This Special Issue is devoted to research addressing the influence of different scintillation materials on X-ray imaging quality, including simulation calculation, the preparation and characterization of new scintillation materials, and the development of novel imaging systems.

In order to further advance this field together, researchers are invited to share their results in this Special Issue and jointly promote the development of X-ray imaging.







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Editor-in-Chief

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Message from the Editor-in-Chief

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