



Development and Application of Novel Dual Energy X-ray Imaging Methods

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Message from the Guest Editors

Dual-energy X-ray imaging is an alternative technique to simple transmission X-ray imaging which produces two separate radiographs using two different X-ray energies. This technique can obtain both the density and atomic number, and, thus, provide information about material composition and improve image contrast. The dual energy technique is capable of differentiating materials with similar electron densities that have different photon absorption. This information is very helpful for industrial inspection applications, for security, and for the quality evaluation of agricultural and food products, as well as in various disciplines of medical imaging.

Due to the variety of research fields in dual energy X-ray imaging, the Editorial Board of Crystals has decided to devote a Special Issue of the journal to the analysis of the “Development and Application of Novel Dual Energy X-ray Imaging Methods”. Being honored to serve as Guest Editors, we hereby invite all colleagues who work on these topics to contribute to this issue. Topics relating to issues such as medical imaging, industrial applications, security, agricultural, etc., are welcome.





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Message from the Editor-in-Chief

Crystals are a very important class of structured material, both from a scientific and technological viewpoint. In 2011, the Nobel Prize in Chemistry was awarded to Dan Schechtman for his work on quasicrystals. Our journal already expresses in its name *Crystals* that its focus centers around all aspects of this class of materials, which has fascinated humankind from its beginning. Despite decades of research on crystals, it remains a hot and fascinating research topic.

Crystals is a good platform for dissemination of knowledge in this area.

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