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

Guest Editors:

Prof. Dr. George Fountos

University of West Attica, Athens,
Greece

Dr. Christos Michail

University of West Attica, Athens,
Greece

Deadline for manuscript
submissions:

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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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Special Issue



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Editor-in-Chief

Prof. Dr. Alessandra Toncelli

Department of Physics, University
of Pisa, 56126 Pisa, PI, Italy

Message from the Editor-in-Chief

Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

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Crystals Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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