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Crystalline Materials for Radiation Detection: A New Perspectives

Guest Editors:

Dr. Ivana Capan

Dr. José Coutinho

Dr. Vladimir Radulovic

Dr. Takahiro Makino

Deadline for manuscript submissions:
closed (10 August 2021)

Message from the Guest Editors

The development of efficient and environmentally-friendly technologies for radiation detection is a great challenge. Among the materials of present and future perspective are crystalline materials, wide-bandgap semiconductor crystals, in particular. The recent progress in crystal growth, theoretical modelling, understanding of radiation induced defects, and radiation hardness has offered a new perspectives for radiation detection.

This Special Issue of *Crystals* is dedicated to all aspects related to the growth, characterization, and applications of crystalline materials for radiation detection with the aim to provide an overview of the issues of current interest and future perspectives.

Researchers working in the field are invited to contribute. Potential topics of interest include but are not limited to the following:

- Growth and characterization techniques of crystalline materials;
- Radiation detection;
- Wide-band gap semiconductors;
- Radiation induced defects;
- Modeling, first-principles calculations, etc.;
- Deep level transient spectroscopy, electron paramagnetic resonanse, etc;

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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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Journal Rank: JCR - Q2 (*Crystallography*) / CiteScore - Q2 (*Condensed Matter Physics*)

Contact Us

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

Tel: +41 61 683 77 34
www.mdpi.com

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crystals@mdpi.com
𝕏@Crystals_MDPI