

Special Issue

Novel Scintillator Crystals

Message from the Guest Editors

Scintillator single crystals have been developed for some applications using radiation detectors in medical, environmental and security fields to improve the sensitivity of radiation detection and spatial resolution. Novel radiation detectors have also been developed using the scintillator single crystals. In recent years, growth methods of scintillator single crystals have been improved, and various novel scintillator crystals have been developed using the methods. In addition, the developed growth technique of bulk single crystals and shape-controlled single crystals has contributed to the mass production of scintillator single crystals and the development of novel radiation detectors. Self-organized eutectic scintillator crystals grown by the unidirectional solidification and nanoparticle crystals of scintillator have shown great scintillation properties.

Therefore, this Special Issue focuses on the crystal growth and scintillation properties of novel scintillator crystals, and crystal growth techniques of scintillator crystals.

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Deadline for manuscript submissions

closed (30 September 2022)



Crystals

an Open Access Journal
by MDPI

Impact Factor 2.4
CiteScore 5.0



mdpi.com/si/115001

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About the Journal

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.

Editor-in-Chief

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