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Defects in Crystals

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Deadline for manuscript
submissions:

closed (30 May 2022)

Message from the Guest Editors

Defects are an intrinsic feature of materials, meaning that perfect solids or crystals (without defects) do not exist in nature as dictated by thermodynamic constraints of order and disorder in solids. Imperfections in crystalline solids play a critical role in solid-state science since it can determine a variety of properties of materials such as mechanical resistance, spectroscopic behaviour, and mass transport. Thereby, defect-driven phenomena are of great importance in solid-state chemistry, physics, and engineering. The existence of defects occurs from nanomaterials to bulk materials, of single composition or composites, and may affect the material's performance in several orders of magnitude.

Given the importance of defects in material science as a multidisciplinary topic, we invite researches and scientists to contribute to the Special Issue Defects in Crystals.



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Special Issue



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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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