Special Issue

Interface at Dissimilar Crystal Structures

Message from the Guest Editors

By mixing different materials to obtain compounds with superior properties. During these processes, it is crucial to establish a reliable interface between dissimilar materials, which can serve to fulfil various requirements, such as mechanical robustness and thermal stability. Challenges arise from the differences in crystal structures, lattice parameters and physical properties of the materials to be combined.

In the last few decades, researchers have started to apply various novel manufacturing methods to facilitate bonding in dissimilar materials which are challenging to combine. Novel microstructure characterization techniques and simulation studies have been presented to investigate the interfacial structures between such compounds and unveil their joining mechanisms. The current topic aims to bring together research efforts, both successful and unsuccessful, to join dissimilar materials, especially dissimilar crystal structures. A better understanding of the interfacial structures between dissimilar materials will help us to further explore possible dissimilar material combinations for various applications.

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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.

Editor-in-Chief

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