

Special Issue

Processing–Structure–Property Relationships in Next-Generation Titanium Alloys

Message from the Guest Editors

Titanium and its alloys remain at the cutting edge of advanced materials research, serving as indispensable candidates across aerospace, automotive, biomedical, marine, and energy sectors. Their unique combination of low density, high specific strength, corrosion resistance, and biocompatibility positions them essential for future technologies. However, their full potential is limited by challenges in processing, property tailoring, and cost reduction.

This Special Issue of *Crystals* aims to highlight frontier advances in titanium alloys, emphasizing structure–property relationships, novel applications, and pathways toward next-generation lightweight materials.

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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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