

## Special Issue

# Advances in Alloys and Intermetallic Compounds

### Message from the Guest Editors

Alloys and intermetallic compounds (including hydrides, nitrides, and carbides) represent an important and wide area of scientific interest due to their variety of properties and possible applications. The range of different properties of alloys and intermetallics includes magnetic (type of magnetic order, metamagnetism, magnetocrystalline anisotropy, etc.), mechanical, thermoelectric, optical, and superconducting properties making them suitable for practical applications in the field of energy storage and conversion (metal hydrides (hydrogen storage, battery materials), magnetocaloric effect, thermoelectric effect, etc.) and other applications (magnetic recording, structural applications, catalysis, etc.). The present Special Issue will include papers on various properties of alloys and intermetallic compounds. It is expected that proposed manuscripts will include experimental approaches (preparation, various characterization methods, etc.), theoretical approaches (density functional theory, interatomic potentials, crystal structure prediction, CALPHAD method, etc.), or a combination of both.

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### Guest Editors

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### Deadline for manuscript submissions

closed (31 August 2021)



## Crystals

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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.

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### Editor-in-Chief

Prof. Dr. Alessandra Toncelli  
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