# Special Issue

# Recent Advances in Phononic Crystals and Acoustic Metamaterials

## Message from the Guest Editors

In this Special Issue, we would like to invite all contributions related to phononic crystals and acoustic metamaterials. Theoretical, numerical, and experimental studies and investigations on these artificial materials are welcome. This Special Issue aims to publish novel research results but also to provide comprehensive understanding of the physics, mechanisms, materials, analyzing methods, applications, and recent development of phononic crystals and acoustic metamaterials. In light of recent advances, research articles, short communications, and review articles that are related but not limited to the following topics are encouraged to be submitted to this Special Issue.

- thermal phononic crystals
- topological phononic crystals
- phononic/phoxonic sensors
- phoxonic crystals and acousto-optic coupling
- functional metamaterials
- micro and nanoscale phononic crystals
- acoustic metasurfaces
- sonic crystals/metamaterials
- underwater metamaterials (solid–fluid interaction)
- seismic metamaterials
- applications and devices with phononic crystals and acoustic metamaterials

## Guest Editors

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## Deadline for manuscript submissions

closed (31 December 2021)

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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

Prof. Dr. Alessandra Toncelli
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