



Advances and Application of Phononic Crystals

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Message from the Guest Editors

Dear Colleagues,

Phononic crystals (PnCs) with artificially designed periodic microstructures have proved to be of great interest over the past two decades due to their unique properties, which cannot be easily realized in natural materials. The deep wavelength nature inherent to phononic crystals spans a wide frequency range, stimulating investigations on their bandgap, negative bulk modulus, and so on. Recently, PnCs have attracted significant attention in energy-harvesting applications. These sophisticatedly designed architectures enable functions such as suppressing undesired noise and vibration, directing wave propagations, and converting acoustic/elastic energy into other forms, some of which have been used in micro-electromechanical systems. Advances in PnCs have aroused significant interest from researchers in multiple disciplines in exploring novel functionalities and extending their applications. This Special Issue aims to highlight PnC-related applications and advances in the field.





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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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