Special Issue

Recent Research on Engineering Acoustic Metamaterials

Message from the Guest Editors

Acoustic metamaterials (AMs) have undergone rapid development since the turn of the century, and a plethora of novel and/or interesting AMs have emerged, such as those with negative elastic modulus, negative mass density, and negative refraction as well as cloaks, mirages, superlenses, metadiffusers, metasurfaces, rectifiers, and basic logic gates. It is worth noting that in this Special Issue, the concept of AMs is extended to include phononic crystals (PCs). On the other hand, the emergence and development of AMs bring new vitality into the study of traditional acoustic problems, such as noise pollution. To realize novel or specific functions, the structures of AMs are usually complex. Thanks to the technology of additive manufacturing, the preparation of AMs with complex structures is feasible. Consequently, AMs take a further step toward application in engineering. This Special Issue welcomes contributions in the field of acoustic metamaterials and their applications in engineering, including structures, materials, experimental methods, optimization methods, calculation methods, and physical mechanisms.

Guest Editors

Prof. Dr. Jing Liu

Prof. Dr. Jianning Han

Dr. Xiuhai Zhang

Dr. Ting Wang

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Crystals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
crystals@mdpi.com

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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

Prof. Dr. Alessandra Toncelli
Department of Physics, University of Pisa, 56126 Pisa, PI, Italy

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