Special Issue

Active, Tunable and Reconfigurable Elastic Metamaterials

Message from the Guest Editors

Elastic metamaterials are artificial composite structures exhibiting extraordinary properties and functionalities. Metamaterials with tunable, reconfigurable, or programmable properties are gaining more and more attention due to their wide-ranging applicability on demand. The target of tunability and reconfigurability is to manipulate elastic waves, switch between different states, and adapt to different circumstances. Additionally, metamaterials containing active devices can achieve on-demand functionalities by breaking the inherent restrictions of passive metamaterials. Metasurfaces, also known as planar metamaterials, have recently been developed to manipulate wavefronts by abruptly shifting the phase. Active, tunable, and reconfigurable metasurfaces is also a highly active research area at present. Furthermore, combined with topological metamaterials, such as Willis metamaterials, many new exciting studies will emerge in the area of active, tunable, and reconfigurable elastic metamaterials and metasurfaces. These studies will promote the design and applications of multi-functional elastic metamaterials.

Guest Editors

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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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