



Active, Tunable and Reconfigurable Elastic Metamaterials

Guest Editors:

Dr. Kuo-Chih Chuang

School of Aeronautics and
Astronautics, Institute of Applied
Mechanics, Zhejiang University,
Yuquan Campus, Hangzhou
310027, China

Dr. Yanfeng Wang

Department of Mechanics,
School of Mechanical
Engineering, Tianjin University,
Tianjin 300072, China

Dr. Yongquan Liu

State Key Laboratory for Strength
and Vibration of Mechanical
Structures, School of Aerospace
Engineering, Xi'an Jiaotong
University, Xi'an 710049, China

Deadline for manuscript
submissions:

closed (30 November 2022)

Message from the Guest Editors

Dear Colleagues,

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.





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Editor-in-Chief

Prof. Dr. Alessandra Toncelli

Department of Physics, University
of Pisa, 56126 Pisa, Italy

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Crystals Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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