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Acoustic and Mechanical Metamaterials: Recent Advances

Guest Editor:

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Message from the Guest Editor

It is well known that acoustic metamaterials are usually designed to effectively manipulate acoustic waves. On the other hand, mechanical metamaterials are used not only for their mechanical aspects such as auxeticity, shape morphing, and energy absorption, but in many cases, they are used for their excellent capability to manipulate acoustic wavs. This is why there is a relatively broad overlap of research in the fields of acoustic and mechanical metamaterials.

In this Special Issue, we aim to explore the latest advances in the design and manufacture of acoustic and mechanical metamaterials.

This Special Issue welcomes original research papers and review articles covering all relevant topics, including but not limited to:

- Pentamodes;
- Double-negative acoustic metamaterial;
- Auxetic metamaterials;
- Cosserat metamaterials;
- Split-ring resonators;
- Phononic crystals;
- Superlenses;
- Metamaterials with negative compressibility;
- Willis materials.

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Message from the Editor-in-Chief

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