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Elastic and Thermal Metamaterials: Novel Properties and Applications

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Message from the Guest Editors

Metamaterials are synthetic composite materials with artificial structures that are specifically designed to have intriguing properties in controlling physical fields, and have enabled a wide range of new applications. In the last few years, there has been tremendous progress made in realizing artificial metamaterials and metastructures both in theoretical and experimental aspects, for example in electromagnetic and acoustic waves. The studies on elastic metamaterials, particularly for seismic waves, and also thermal metamaterials are relatively recent. A viable strategy may offer a potential solution that complements current civil engineering solutions to ensure the safety of buildings and infrastructures.

This Special Issue aims to further focus on elastic and thermal metamaterials, presenting new discoveries in relevant subjects through new theoretical concepts and design approaches, numerical simulations. new experimental implementations, and various novel applications. This Special Issue will serve as a platform for researchers from different disciplines to bring together recent scientific advances to demonstrate what can be done and what can be envisaged in the future.













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Message from the Editor-in-Chief

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