Special Issue

Analytical and Numerical Modelling of Mechanical Metamaterials for Novel Engineering Design

Message from the Guest Editor

This Special Issue will focus primarily on the design and/or study of mechanical metamaterials using analytical and numerical methods, including but not limited to finite element modelling, molecular dynamics, and optimization techniques amongst others. Articles on the design of systems showing auxetic (negative Poisson's ratio), negative stiffness, negative thermal expansion, and negative compressibility ranging from the macroscale to the nanoscale are welcome, as well as the design of hierarchical structures and systems with improved properties obtained through structural modifications. Submissions on the implementation of metamaterials in applications are also highly encouraged.

For more information, please clink on the following link:
https://www.mdpi.com/journal/materials/special_issues/mechanical_metamaterials

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Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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