Special Issue

Mechanical Properties and Numerical Modeling of Advanced Materials

Message from the Guest Editor

The use of advanced materials, such as composites, nanostructured materials, and shape memory alloys, among others, are at the forefront of innovation in engineering and technology. Enhanced strength-to-weight ratios, superior durability, and tailored responses to environmental stimuli make them ideal for applications in aerospace, biomedical, and other high-tech industries, all of which is the motivation for this Special Issue focused on the mechanical characterization and numerical modeling of advanced materials.

Among other topics, we welcome contributions related to experimental methodologies for the assessment of key mechanical properties, as well as the development and application of cutting-edge numerical and or analytical techniques to predict material behavior and optimize materials' and structures' designs.

Overall, this Special Issue aims to collect and disseminate critical insights and tools to harness the full potential of advanced materials, advancing their implementation in cutting-edge technologies.

We invite you to share your research work and contribute to this Special Issue.

Guest Editor

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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