



Advanced Structure Materials and Processing

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Message from the Guest Editors

Structural materials are materials used or studied primarily for their robust and reliable mechanical properties in numerous engineering applications. Through advanced technologies for processing, microstructural control and shaping (or forming), the functional performance of the structural materials and products can even be tailored. This Special Issue will address the major classes of structural materials such as metals, polymers, composites and ceramics as well as hybrid and other emerging materials. The Special Issue will also deal with recent advances in the processing, material characterization, modeling and simulation of advanced structural materials at different length scales, from the micro- to macroscale. Moreover, it will address the fundamental and broad relationships between materials, processes and their structures and their effects on physical and mechanical properties and various applications.

Keywords

- structural materials
- mechanical properties
- microstructure
- shaping and forming
- material characterization
- modeling and simulation
- material processing





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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.

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