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Mechanical Behavior and Numerical Simulation of Sandwich Composites

Guest Editor:

Dr. Bin Han

School of Mechanical
Engineering, Xi'an Jiaotong
University, Xi'an 710049, China

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Message from the Guest Editor

Sandwich structures have a high strength-to-weight ratio, good thermal and acoustic insulation properties, and resistance to buckling and crushing. They also offer enhanced durability and impact resistance compared to solid materials. At present, sandwich structures are used in a wide range of applications, including aircraft wings and fuselages, boat hulls, wind turbine blades, and building facades. They are an essential component of modern engineering design and are constantly being improved and refined to meet the demands of a changing world.

This Special Issue particularly welcomes full papers on original research studies, review papers, and experimental or numerical investigations related to the theory, testing, modeling, simulation, design, and application of sandwich composites. The topics of this issue include (but are not limited to) studies on the mechanical behavior of sandwich composites, core and skin materials, additive manufacturing or other advanced manufacturing methods, and the optimization of sandwich composites. It should be noted that numerical or analytical research work without test verification is not recommended.



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Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Message from the Editor-in-Chief

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Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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