Special Issue

Lightweight and High-Strength Sandwich Panel (2nd Edition)

Message from the Guest Editors

The lightweight and high-strength sandwich panel has the advantages of high specific strength and specific stiffness properties, so it has good application prospects in the aerospace, shipbuilding, and construction industries. With the development of sandwich structure design and optimization, different core shapes appear and are applied in various engineering fields. At the same time, the development of industry also requires the development of sandwich panel materials and processes. This Special Issue is dedicated to the mechanical performances of lightweight sandwich panels. Topics of interest include (but are not limited to):

- experiments of lightweight and high-strength sandwich panels;
- mechanical analysis of lightweight and high-strength sandwich panels;
- numerical simulations of lightweight and high-strength sandwich panels;
- damage and failure of lightweight and high-strength sandwich panels;
- design and application of lightweight and high-strength sandwich panels;
- multiscale modeling of lightweight and high-strength sandwich panels;
- optimization of lightweight and high-strength sandwich panels.

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Message from the Editorial Board

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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