Special Issue

Mechanics of Corrugated and Composite Materials

Message from the Guest Editors

Corrugated materials are increasingly used as construction materials or load-bearing elements in various engineering applications. Due to the specific compositions of corrugated materials, the ratios of their load capacities to the section weights are much higher than for traditional solid sections. Composite materials, due to their unique designable properties, may be used in many areas to address difficult problems for which traditional materials would fail. The following topics are the main fields for this Special Issue: corrugated boards and sandwich or composite panels; mechanical characterization and strength estimation methods; numerical and analytical homogenization techniques; laboratory testing methods; linear and nonlinear analysis of any structures made of corrugated or composite plates; laminated materials; fiber materials. The readers and authors are encouraged to send their latest research studies in these areas, with an emphasis on experimental validation and empirical proof for areas related to the mechanical behavior of corrugated and composite materials.

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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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