Special Issue

Mechanical Models for the Analysis of Pultruded Composite Materials and Structures

Message from the Guest Editors

The scope of this Special Issue, “Mechanical Models for the Analysis of Pultruded Composite Materials and Structures,” will cover several aspects relating to mechanical behavior and structural design of pultruded materials with a special interest in the following topics:

- Continuum mechanics of pultruded materials and structures
- Thermoset and thermoplastic pultruded materials and structures
- Influence of process parameters and choice of raw materials on the mechanical performance of the pultruded composites
- Effects of manufacturing induced shape distortions (spring-in, warpage), process-related imperfections (cracks, delaminations) and residual stresses on the mechanical characteristics of pultruded elements
- Mechanical models of pultruded composites
- Mechanical testing and mechanical characterization of pultruded materials
- Civil engineering structures made of pultruded elements
- FEM modeling of pultruded materials and structures
- Pultruded materials and structures subjected to tension, compression, shear, bending, buckling, creep, fatigue, aging, UV radiation, freeze-thaw cycles, high/low temperatures and fire loading, etc.

Guest Editors

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Deadline for manuscript submissions

closed (31 December 2021)

Coatings

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.4

mdpi.com/si/62771

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Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.
Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

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