



Advances in Textile Structural Composites

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

The direction of fiber orientation plays a crucial role in deciding the mechanical performance of textile structural composites. Composites constructed from reinforcement having a well-defined geometry perform better than randomly oriented fibers at a reasonable cost. Their flex fatigue is superior to conventional preforms in specific applications. This Special Issue invites research as well as review articles dealing with different types of (2D, 3D, multiaxial) woven, knitted, and braided structures for load bearing structural composite applications. Use of industrial multifilament yarns of pure and hybrid composition in textile geometrical reinforcement structures can also be included. The methods of impregnation of such structures by thermoplastic and thermoset resins should be described. Methods of characterizing woven, knitted, and braided textile reinforced composites is the focus of this issue. Applications of advanced textile structural composites can be summarized in the submitted articles. Theoretical as well as experimental work can be submitted with sufficient scientific innovation.

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Message from the Editor-in-Chief

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