Special Issue

Advanced Composite Materials: Theory, Design and Applications

Message from the Guest Editor

Composite materials are widely used in various areas of science. Especially in the last several decades, the use of composite materials has seen a significant increase and application in sectors that were unthinkable a few years ago. This Special Issue aims to focus on research relating to the application of composite materials on three different points. These are: theoretical developments, especially with reference to materials and composite performance; different criteria design (considering also aspects related to static, fatigue, and fracture phenomena, for example); and real and innovative applications (a very important aspect related, for example, to the junction of composite materials with other materials).

This Special Issue will cover the following topics (but not limited to these):

- Design by composite material;
- Static, fatigue, and fracture performance;
- Damage criteria;
- Experimental tests;
- Lightweighting components;
- Joint design;
- Manufacturing processes;
- Innovative applications.
- Theoretical studies (analytical and numerical).

Guest Editor

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Deadline for manuscript submissions

closed (20 September 2022)

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Message from the Editor-in-Chief

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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