Special Issue

Large Composite Structures: Materials and Sustainability

Message from the Guest Editors

Fibre-reinforced composites are widely used as the primary structural component in large composite structures, for example, in turbine rotor blades, small- and medium-length marine vessels, aircraft, and construction materials. Owing to the environmental impact, poor recyclability potential, and inadequate sustainability aspects of traditional composites, there is an increasing trend towards developing novel composite materials for modern engineering applications. Apart from demonstrating equivalent or superior mechanical properties to traditional composites, these new composite materials are also sustainable, can be easily recycled, and can lower the overall environmental impact.

Therefore, this Special Issue welcomes original research articles, review papers, and case studies related to a wide range of topics around the materials and manufacture and development of modern large composite structures, including, but not limited to, the following:

- Bridges and infrastructure systems;
- Naval vessels;
- Superyachts;
- Renewable energy system components, for example, turbine rotor blades;
- Aircraft;
- End-of-life treatment of composites.

Guest Editors

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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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