Special Issue

Advanced Composite Material Design and Manufacturing Technology for Aerospace Engineering

Message from the Guest Editors

Advanced composites have many advantages, such as a high specific strength, high specific modulus, fatigue resistance, light weight, corrosion resistance and strong design, etc. They have been widely investigated and applied in the aerospace field. In this Special Issue, we focus on advanced composite design and manufacturing technology for aerospace engineering, mainly including materials, mechanics, manufacturing technology, test characterization, advanced equipment and engineering applications, etc. Potential topics for submissions include, but are not limited to:

- Materials design, such as fiber, resin, interface, functional materials, etc.;
- Mechanical design, such as constitutive modeling, multi-scale modeling, stiffness, static strength, fatigue, buckling stability, progressive damage behavior, etc.;
- Manufacturing technology, such as autoclave, RTM, additive manufacturing, intelligent manufacturing, etc.;
- Advanced equipment, such as automatic molding, additive manufacturing, test characterization, nondestructive testing, etc.;
- Engineering applications, such as composite products, high-performance materials, design and evaluation methods, etc.

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Deadline for manuscript submissions

closed (20 April 2023)

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About the Journal

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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