

Special Issue

Fatigue and Fracture of Aerospace Composite Materials and Structures

Message from the Guest Editors

Composites are increasingly used in aerospace structures that are subjected to extreme loading and environmental conditions due to their high strength-to-weight ratio, customizability, and exceptional resistance to corrosion and fatigue. Studying the fatigue and fracture of aerospace composite materials and structures is critical to advance the durability and reliability of modern aerospace systems. This Special Issue focuses on recent developments in understanding the behavior of these materials under various operational and extreme conditions. Potential topics include the fatigue and fracture mechanisms of composite materials and structures, damage tolerance, and material strength. Given the complexity of composite materials, these investigations are essential for designing resilient and efficient aerospace structures. The of this Special Issue invites researchers to contribute papers addressing the fundamental mechanisms, state-of-the-art modeling techniques, and experimental approaches to enhance the understanding of fatigue, fracture, and failure in aerospace composite materials and structures.

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Aerospace adheres to rigorous peer-review as well as editorial processes and publishes high quality manuscripts that address both the fundamentals and applications of aeronautics and astronautics. Our goal is to enable rapid dissemination of high impact works to the scientific community.

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