

Special Issue

Sustainable Development of Composite Materials: From Smart Production to Optimal Operation

Message from the Guest Editor

Composite materials are nowadays broadly used across various engineering applications and continuous efforts are being made by research centres and industries worldwide to optimize their performance. In addition to mechanical perspectives, the sustainable production and operation of composites has come to be seen as being of great importance. With this in mind, this Special Issue aims to gather innovative research papers related to the sustainability of all types of composite materials, including green approaches to their production, development, and usage in different applications. Topics that fall within the scope of this Special Issue include, but are not limited to, issues dealing with renewable energy systems, energy-efficient manufacturing, sustainable materials, waste reduction and recycling, the Internet of Things (IoT), AI and machine learning approaches, digital twins, circular economy solutions, and non-destructive testing towards proactive maintenance and limited-energy-consuming repair methods. Review papers, as well as numerical, experimental, and analytical works, are welcome.

Guest Editor

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Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

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