Special Issue

Numerical/Experimental Fracture Mechanics Methodologies for Composites and Their Joints

Message from the Guest Editors

The Special Issue, “Numerical/experimental fracture mechanics methodologies for Composites and their joints”, is devoted to cover novel methodologies for triggering crack events at different length scales in composites and their joints. Original papers are solicited on techniques varying between experimental testing to numerical and analytical approaches revealing new insights into the foundations of material behavior, but also entailing new challenges including capturing multiple scale interactions, from micro to macro-scale. Special attention is paid to ground-breaking methods which are experiencing a considerable development in the last years such as cohesive-like fracture approach, variational formulations advocating Griffith’s theory, Finite Fracture or Coupled stress-energy procedures, among many others. We sincerely hope this Special Issue will contribute to the identification of new challenges and future research directions within the context of Fracture Mechanics in composites.

Guest Editors

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Deadline for manuscript submissions

closed (30 November 2021)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/71007

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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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