Special Issue

Behavior of Metallic and Composite Structures (Second Volume)

Message from the Guest Editors

The aim of this SI is to understand the basic principles of damage growth and fracture processes in advanced metallic and composite structures, including also structural joints. Today, it is widely recognized that important macroscopic properties, like macroscopic stiffness and strength, are governed by processes that occur at one to several scales below the level of observation. A thorough understanding of how these processes influence the reduction of stiffness and strength forms the key to the analysis of existing and the design of improved innovative structural elements.

The study of how these various length scales—nano, micro, meso—can be bridged or taken into account simultaneously in multiscale models is particularly attractive for composite materials and structural elements, since they have a well-defined structure at the above specified levels.

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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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