Special Issue

Constitutive Model for Porous Metallic Materials

Message from the Guest Editor

In recent years, the understanding of the densification mechanisms of porous metallic materials has also attracted increasing interest due to the remarkable evolution of some powder-based metal additive manufacturing techniques (such as binder jetting or NNS-HIP among others). This requires an adequate description of these sintering mechanisms at different scales and using different approaches. The Special Issue, “Constitutive Model for Porous Metallic Materials”, will address advances in materials science, processing, characterisation techniques, modelling and simulation, including multiscale approaches of porous metallic materials. Original papers are solicited on all types of problems linked to the development, evolution and mechanical and physical response of porous metallic materials including the underlying microscale mechanisms, with an emphasis on the development of quantitative approaches to explain and predict experimental observations.

Guest Editor

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Deadline for manuscript submissions

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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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