Special Issue

Porous Metals: Preparation, Microstructure, Properties and Performance

Message from the Guest Editors

Porous metals (also known as metal foams and cellular metals) are a special class of composite materials, composed of a metal phase and a gaseous phase. The functionality of porous metals derives from the combinations of these two distinct materials, and, in essence, their specific porous structures. Porous metals are produced by a variety of techniques, including foaming, casting, and powder metallurgy. Recent advances in additive manufacturing have added impetus to the field. Porous metals are finding new applications in many sectors, such as aerospace, automotive, construction, and energy, for their unique properties. This Special Issue of *Materials* intends to cover a wide range of porous metal structures manufactured using different technologies. A special emphasis will be placed on new fabrication methods, novel structures, new properties, and new applications of porous metals. We look forward to your contributions. click here for more information and submit.

Guest Editors

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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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