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Porous Metals: Preparation, Microstructure, Properties and Performance

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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.



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Message from the Editor-in-Chief

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