



*materials*



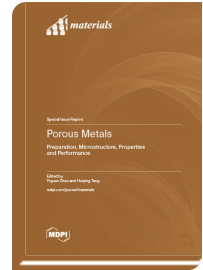
*Special Issue Reprint*

## **Porous Metals: Preparation, Microstructure, Properties and Performance**

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This reprint is a collection of 10 papers from a Special Issue on porous metals in the journal *Materials*. These papers involve several manufacturing technologies, including 3D printing, melt infiltration, and powder sintering. They cover a range of different materials, including titanium, aluminum, copper, magnesium alloys, composites, and sandwich structures. They investigate a range of properties that are either uniquely derived from porous structures or heavily influenced by porous structures, including mechanical properties, energy absorption in explosions, friction, the capillary effect, the heat transfer coefficient, and catalytic efficiency. This collection introduces the most recent advances in the field of porous metals and captures the diverse and comprehensive nature of different facets of porous metals, with special emphasis on new fabrication methods, novel structures, new properties, and new applications. It is a useful reference for researchers and practitioners alike in the field.



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